

*Performance
of Soybean
Varieties in
Alabama,
2012*

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PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 2012

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INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. The 7 locations used represent the major soil and climatic regions of Alabama. These locations are divided into logical soybean growing regions. The regions and locations are:

Region	Location
Northern	Belle Mina, Crossville
Central	Tallassee, Shorter
Southern	Brewton
Black Belt	Marion Junction (2 soils)
Gulf Coast	Fairhope

EXPERIMENTAL PROCEDURES

The standard tests were conducted as a randomized complete block design with four replications. Standard plot size was four 30- to 38-inch rows by 20 feet long. Fifteen feet of the middle two rows were harvested for yield. Seeding rate was 10 viable seeds per foot of row. The Group IV test was drilled with seven 7-inch rows. Seeding rate was five viable seeds per foot of row.

Data were collected on seed yield, moisture, lodging, shattering, plant height, and maturity date. Plot yields were adjusted to 13 percent moisture and converted to bushels (60 pounds) per acre. Lodging was scored on a scale of 1 to 5 as follows:

- 1 - almost all plants erect.
- 2 - either all plants leaning slightly (less than 45%) or a few plants down.
- 3 - either all plants leaning moderately (approximately 45%) or 25 to 50 percent of the plants down.
- 4 - either all plants leaning more than 45% or 50 to 80 percent of the plants down.
- 5 - more than 80 percent of the plants down.

Shattering was rated on a scale of 1 to 5 based on performance of the border rows 14 days after maturity. A rating of 1 indicates no shattering, a rating of 3 indicates a 4 to 8 percent shattering, and a rating of 5 is 20 percent or more shattering. Plant height was determined by measuring from the ground to the top of the plant at maturity. Maturity date was the day 95 percent of the pods achieved mature pod color. Harvest was approximately 7 to 10 days later.

SEASONAL CONDITIONS

Rainfall for 2012 is shown in Table 30. The normal planting dates for the standard tests are the first week in May, May 15-25, and May 25 to June 5 for northern, central, and southern Alabama locations, respectively.

COMPARING VARIETIES

To aid in determining real yield differences, a statistical analysis of variance was performed on the data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are reported for each location's 2012 test, and for the location's or region's 2- and 3-year averages. The difference in yield of two varieties must exceed the L.S.D. value for one variety to be considered superior to others in yield in that particular test. The C.V. is a measure of the variability in an experiment. An increase in its value indicates an increase in the unexplained variability.

Since the performance of varieties varies with location and year, long-term averages from several locations are more reliable than 1-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of varieties. However varietal rankings may change among years and among locations. This change in rankings is measured by the significance of variety x location, variety x year, variety x location*year interaction. These interactions were significant in all cases. Thus, care should be exercised when extrapolating results from one location or year to another.

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TABLE 1. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2012

Variety	Belle Mina	Cross ville	Regional Average				
			Yield	Lodging score	Shattering score	Plant height	Maturity date
	----- bu/acre -----					- inches -	
Maturity Group IV							
Dyna-Gro S48RS53	64.0	75.4	69.7	1.7	1.6	34	9-17
HBK RY4620	62.1	76.4	69.2	1.8	1.5	29	9-20
USG 74A92R	72.6	63.2	67.9	2.0	1.3	33	9-26
HBK RY4721	62.9	70.1	66.5	1.5	1.5	35	9-17
Schillinger 4990.RC	66.0	65.1	65.6	1.5	1.4	34	9-24
Asgrow AG 4632	61.3	69.6	65.5	1.5	1.3	32	9-18
Asgrow AG 4832	65.4	64.4	64.9	2.1	1.8	35	9-19
Dyna-Gro 37RY47	59.0	70.2	64.6	1.1	1.5	28	9-15
USG 74G99L	69.5	59.2	64.3	1.4	1.1	35	9-25
USG 74E88	64.4	63.2	63.8	1.4	1.7	33	9-13
Terral REV 49R43	58.0	66.6	62.3	1.6	1.3	30	9-21
GoSoy 4910LL	62.3	61.6	62.0	1.4	1.3	33	9-29
HBK R4924	66.1	57.3	61.7	1.7	1.1	37	9-19
Schillinger 495.RC	67.3	56.1	61.7	2.0	2.1	35	9-20
USG 74H92R	65.6	56.5	61.0	1.5	1.0	29	9-21
Dyna-Gro S47RY13	62.3	57.2	59.7	1.3	1.8	30	9-17
Terral REV 47R53	55.6	63.2	59.4	1.8	1.1	31	9-15
TN09-029	61.7	56.8	59.3	1.1	1.0	26	9-24
Terral REV 48R33	55.2	63.1	59.2	1.8	1.5	33	9-12
GoSoy 4411LL	58.8	58.9	58.9	1.8	3.0	32	9-15
Terral REV 49R22	63.5	49.6	56.5	1.9	2.6	32	9-21
Asgrow AG 4633	61.1	47.2	54.1	1.3	1.6	26	9-12
Terral REV 47R74	55.5	52.7	54.1	1.1	2.6	28	9-14
Asgrow AG 4933	64.3	43.7	54.0	1.1	1.3	30	9-20
Terral REV 49R54	55.3						9-19
Trial mean	62.4	61.1	61.9	1.6	1.6	32	9-19
LSD(0.10)	5.0	7.8	4.8				
CV (%)	7.8	12.6	10.8				

TABLE 2. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN NORTH ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg [†]	3-yr avg [†]				
	----- bu/acre -----						
Maturity Group IV							
Schillinger 495.RC	61.7	56.9	46.9	1.7	2.2	36	9-10
Schillinger 4990.RC	65.6	59.0	46.9	1.3	1.9	34	9-12
Terral REV 49R22	56.5	54.0	45.5	1.7	2.3	34	9-8
USG 74E88	63.8	63.9		1.6	1.8	35	9-9
Dyna-Gro 37RY47	64.6	63.7		1.2	1.6	29	9-14
Terral REV 48R33	59.2	63.4		2.2	1.6	35	9-9
Terral REV 49R43	62.3	62.7		1.7	1.3	31	9-16
Terral REV 47R53	59.4	59.3		1.7	1.3	32	9-12
Dyna-Gro S48RS53	69.7			1.7	1.6	34	9-17
HBK RY4620	69.2			1.9	1.6	29	9-20
USG 74A92R	67.9			2.0	1.3	33	9-26
HBK RY4721	66.5			1.6	1.6	36	9-17
Asgrow AG 4632	65.5			1.6	1.3	32	9-18
Asgrow AG 4832	64.9			2.3	1.9	36	9-19
USG 74G99L	64.3			1.4	1.1	35	9-25
GoSoy 4910LL	62.0			1.4	1.3	33	9-30
HBK R4924	61.7			1.7	1.1	38	9-19
USG 74H92R	61.0			1.6	1.0	30	9-21
Dyna-Gro S47RY13	59.7			1.3	1.9	30	9-17
TN09-029	59.3			1.1	1.0	27	9-25
GoSoy 4411LL	58.9			1.9	3.0	32	9-15
Asgrow AG 4633	54.1			1.3	1.6	26	9-12
Terral REV 47R74	54.1			1.1	2.6	29	9-14
Asgrow AG 4933	54.0			1.1	1.3	30	9-21
Terral REV 49R54				2.0	1.7	32	9-19
Trial mean	61.9	60.4	46.9	1.6	1.6	32	9-17
LSD(0.10)	4.8	4.4	46.9				
CV (%)	10.8	13.8	45.5				

[†] Multiyear averages do not include the trial at Belle Mina in 2011, which could not be planted due to excessive rain.

TABLE 3. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN TALLASSEE, ALABAMA, 2012

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
	Maturity Group IV				
Asgrow AG 4933	63.4	1.0	1.8	34	9-16
Asgrow AG 4832	63.0	1.5	2.0	38	9-14
HBK R4924	60.4	1.3	1.8	43	9-16
Terral REV 47R53	60.4	1.0	2.0	36	9-11
Asgrow AG 4633	59.8	1.3	1.5	33	9-6
Terral REV 49R22	56.8	2.3	2.5	38	9-16
HBK RY4620	53.8	1.3	2.0	34	9-17
Terral REV 49R43	53.1	1.0	2.3	35	9-12
HBK RY4721	53.1	1.3	2.0	38	9-16
Terral REV 47R74	52.4	1.0	2.3	36	9-5
TN09-029	51.0	1.0	1.3	31	9-21
Terral REV 48R33	49.3	1.0	2.0	38	9-14
Trial mean	56.4	1.2	1.9	36	9-14
LSD(0.10)	7.1				
CV (%)	11.8				

TABLE 4. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN TALLASSEE, ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
	----- <i>bu/acre</i> -----						
	Maturity Group IV						
Terral REV 49R22	56.8	54.4	49.7	1.4	2.0	34	9-8
Terral REV 47R53	60.4	50.7		1.0	1.9	31	9-7
Terral REV 49R43	53.1	45.4		1.0	1.9	29	9-6
Terral REV 48R33	49.3	43.2		1.0	1.6	33	9-6
Asgrow AG 4933	63.4			1.0	1.8	34	9-16
Asgrow AG 4832	63.0			1.5	2.0	38	9-14
HBK R4924	60.4			1.3	1.8	43	9-16
Asgrow AG 4633	59.8			1.3	1.5	33	9-6
HBK RY4620	53.8			1.3	2.0	34	9-17
HBK RY4721	53.1			1.3	2.0	38	9-16
Terral REV 47R74	52.4			1.0	2.3	36	9-5
TN09-029	51.0			1.0	1.3	31	9-21
Trial mean	56.4	48.4	49.7	1.2	1.8	34.3	9-11
LSD(0.10)	7.1	3.7					
CV (%)	11.8	13.4	1.7				

TABLE 5. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2012

Variety	Belle Mina	Cross ville	Regional Average				
			Yield	Lodging score	Shattering score	Plant height	Maturity date
----- bu/acre -----		- inches -					
Maturity Group IV							
Progeny P 4900RY	68.7	57.0	62.8	1.2	1.1	35	10-2
HBK RY4721	63.4	56.7	60.0	1.3	1.3	40	10-1
Progeny P 4819LL	52.8	54.2	53.5	1.6	1.1	37	10-3
HBK R4924	54.4	49.7	52.1	2.0	1.4	43	10-2
Progeny P 4920RY	51.9	47.7	49.8	1.8	1.0	37	10-2
Progeny P 4928LL	55.3	43.8	49.5	1.3	1.3	37	10-1
HBK RY4620	47.9	49.1	48.5	1.2	1.0	36	10-2
Maturity Group V							
Progeny P 5210RY	61.8	56.0	58.9	1.6	1.0	34	10-10
Dyna-Gro 37RY52	55.3	57.6	56.5	1.4	1.0	34	10-10
Dyna-Gro S54RY43	59.9	50.8	55.3	1.8	1.0	35	10-14
Terral REV 53R23	57.2	52.7	55.0	1.1	1.1	29	10-7
TN09-008	56.4	53.4	54.9	1.7	1.4	31	10-12
Terral REV 54R84	56.3	53.3	54.8	2.3	1.0	30	10-8
SS 5112NR2	60.4	49.3	54.8	1.3	1.0	33	10-11
Terral REV 52R74	58.4	50.6	54.5	1.8	1.3	38	10-8
Syngenta NK S 51-H9	59.1	49.2	54.2	1.3	1.0	35	10-10
Progeny P 5711RY	61.0	44.2	52.6	1.5	1.0	36	10-13
Schillinger 5220.RC	52.9	52.1	52.5	1.5	1.0	40	10-12
Bayer HBK RY5221	56.9	47.7	52.3	2.0	1.0	40	10-9
Progeny P 5412RY	53.0	51.1	52.1	1.8	1.1	34	10-13
Bayer HBK RY5421	56.4	45.4	50.9	1.7	1.1	31	10-8
Terral REV 51R53	45.3	54.8	50.2	1.7	1.1	37	10-8
Bayer HBK RY5425	50.5	47.5	49.0	2.6	1.0	43	10-15
Progeny P 5460LL	58.8	38.3	48.5	1.5	1.0	34	10-9
Ozark	56.1	40.8	48.5	1.6	1.4	34	10-10
GoSoy 5410 LL	50.2	42.0	46.1	1.0	1.1	37	10-3
Progeny P 5111RY	40.1	46.5	43.3	1.6	1.1	42	10-6
Progeny P 5388RY	55.9						
Trial mean	55.6	49.7	52.6	1.6	1.1	36.1	10-8
LSD(0.10)	4.6	5.5	3.8				
CV (%)	8.1	11.0	9.7				

TABLE 6. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES IN NORTHERN ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
	----- bu/acre -----						
Maturity Group IV							
Progeny P 4928LL	49.5	45.6		1.9	1.5	36	9-26
Progeny P 4900RY	62.8			1.1	1.1	35	10-2
HBK RY4721	60.0			1.3	1.3	40	10-1
Progeny P 4819LL	53.5			1.6	1.1	36	10-3
HBK R4924	52.1			2.0	1.4	43	10-2
Progeny P 4920RY	49.8			1.5	1.6	34	9-24
HBK RY4620	48.5			1.1	1.0	35	10-3
Maturity Group V							
Progeny P 5210RY	58.9	52.7	41.7	2.4	1.4	33	9-29
Ozark	48.5	49.9	41.5	2.1	1.3	32	9-30
Dyna-Gro 37RY52	56.5	52.2		2.8	1.1	31	10-4
Terral REV 51R53	50.2	51.5		2.5	1.2	35	10-4
SS 5112NR2	54.8	50.8		2.1	1.3	33	10-6
Schillinger 5220.RC	52.5	47.5		2.4	1.1	38	10-4
Progeny P 5111RY	43.3	45.9		2.3	1.2	37	10-3
Progeny P 5460LL	48.5	45.5		1.9	1.3	33	10-2
Dyna-Gro S54RY43	55.3			1.9	1.0	35	10-14
Terral REV 53R23	55.0			1.1	1.1	29	10-8
TN09-008	54.9			1.7	1.4	31	10-12
Terral REV 54R84	54.8			2.3	1.0	29	10-7
Terral REV 52R74	54.5			1.7	1.3	38	10-9
Syngenta NK S 51-H9	54.2			1.3	1.0	34	10-11
Progeny P 5711RY	52.6			1.4	1.0	35	10-13
Bayer HBK RY5221	52.3			2.0	1.0	39	10-9
Progeny P 5412RY	52.1			1.9	1.1	34	10-13
Bayer HBK RY5421	50.9			1.7	1.1	31	10-8
Bayer HBK RY5425	49.0			2.7	1.0	43	10-15
GoSoy 5410 LL	46.1			1.0	1.1	37	10-4
Progeny P 5388RY				2.7	1.0	32	10-11
Trial mean	52.6	49.1	41.6	1.9	1.2	35.0	10-6
LSD(0.10)	3.8	3.9	3.7				
CV (%)	9.7	14.9	18.5				

TABLE 7. PERFORMANCE OF MID-LATE GROUP V SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2012

Variety	Belle Mina	Cross ville	Regional Average				
			Yield	Lodging score	Shattering score	Plant height	Maturity date
----- bu/acre -----			- inches -				
Maturity Group V							
Terral REV 57R21	59.2	63.9	61.6	1.8	1.1	41	10-14
Progeny P 5160LL	65.6	56.4	61.0	1.8	1.0	28	10-18
UA 5612	63.2	58.3	60.7	2.5	1.0	32	10-15
Asgrow AG 5831	65.0	54.8	59.9	1.0	1.0	29	10-13
USG Allen RR	61.5	58.2	59.8	2.0	1.0	34	10-19
Progeny P 5210RY	63.7	56.0	59.8	1.6	1.1	32	10-14
AGS 597RR	62.8	56.4	59.6	2.0	1.0	33	10-20
Progeny P 5711RY	61.3	57.9	59.6	2.1	1.1	33	10-13
SS 5911NR2	60.5	58.0	59.3	1.9	1.1	34	10-15
Asgrow AG 5533	63.4	54.2	58.8	2.8	1.1	32	10-13
Progeny P 5811RY	59.1	57.9	58.5	2.0	1.1	34	10-17
Terral REV 55R83	61.6	55.0	58.3	1.8	1.1	34	10-16
Bayer HBK RY5521	58.8	57.7	58.2	2.1	1.0	33	10-17
Syngenta NK S 59-B8	61.4	54.9	58.2	2.5	1.1	37	10-15
Progeny P 5960LL	62.4	53.2	57.8	2.0	1.1	34	10-17
Syngenta NK S 56-G6	60.6	53.9	57.3	1.1	1.3	32	10-13
Progeny P 5610RY	58.5	56.1	57.3	2.4	1.0	33	10-17
Syngenta NK S 56-W5	61.7	52.8	57.2	2.4	1.0	35	10-19
Dyna-Gro 39RY57	56.6	57.4	57.0	1.8	1.0	30	10-14
Asgrow AG 5633	53.4	60.3	56.8	1.6	1.0	31	10-13
Osage	57.7	55.9	56.8	1.1	1.0	29	10-12
Syngenta NK S 57-K3	59.8	53.7	56.7	2.1	1.0	35	10-15
Dyna-Gro 32RY55	57.2	55.7	56.5	1.4	1.0	33	10-15
Terral REV 56R63	57.8	54.3	56.0	2.4	1.0	37	10-18
Terral REV 59R13	54.0	57.4	55.7	2.1	1.0	38	10-17
Progeny P 5655RY	56.9	53.2	55.0	2.3	1.0	39	10-15
Asgrow AG 5732	55.3	54.3	54.8	1.9	1.1	34	10-13
AGS 5911LL	54.9	53.7	54.3	1.9	1.1	36	10-15
Terral REV 55R53	50.8	57.2	54.0	1.7	1.3	31	10-17
Terral REV 56R21	54.2	53.4	53.8	2.1	1.1	35	10-14
USG 75J62R	56.6	50.9	53.7	2.9	1.1	41	10-16
SS 5510NR2	46.2	52.2	49.2	1.8	1.1	39	10-17
Trial mean	58.8	55.8	57.3	2.0	1.1	33.9	10-15
LSD(0.10)	4.1	4.9	3.2				
CV (%)	6.8	8.8	8.0				

TABLE 8. PERFORMANCE OF MID-LATE GROUP V SOYBEAN VARIETIES IN NORTHERN ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield		Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg				
----- bu/acre -----			- inch -			
Maturity Group V						
Dyna-Gro 39RY57	57.0	58.3	2.9	1.1	32	10-9
Progeny P 5711RY	59.6	57.4	2.6	1.4	35	10-10
Syngenta NK S 57-K3	56.7	56.8	2.6	1.1	36	10-12
AGS 597RR	59.6	56.3	2.6	1.3	34	10-16
USG Allen RR	59.8	56.0	2.1	1.2	36	10-15
Progeny P 5610RY	57.3	56.0	2.6	1.0	34	10-8
Terral REV 56R21	53.8	54.7	2.8	1.3	36	10-8
Syngenta NK S 56-G6	57.3	54.5	2.1	1.4	34	10-8
Terral REV 56R63	56.0	54.2	2.6	1.3	37	10-11
Dyna-Gro 32RY55	56.5	54.1	2.1	1.1	35	10-9
Progeny P 5960LL	57.8	53.8	2.1	1.1	35	10-9
Osage	56.8	53.5	2.1	1.0	32	10-4
Progeny P 5811RY	58.5	53.3	2.3	1.1	33	10-8
Terral REV 57R21	61.6	53.2	2.4	1.4	39	10-7
Progeny P 5655RY	55.0	53.1	2.4	1.3	39	10-8
Asgrow AG 5831	59.9	52.3	1.6	1.1	32	10-6
Asgrow AG 5732	54.8	51.8	2.2	1.2	35	10-7
SS 5510NR2	49.2	46.5	2.2	1.4	40	10-8
Progeny P 5160LL	61.0		1.9	1.0	28	10-18
UA 5612	60.7		2.6	1.0	32	10-15
Progeny P 5210RY	59.8		1.6	1.1	31	10-15
SS 5911NR2	59.3		1.9	1.1	33	10-15
Asgrow AG 5533	58.8		2.9	1.1	32	10-13
Terral REV 55R83	58.3		1.9	1.1	34	10-16
Bayer HBK RY5521	58.2		2.1	1.0	33	10-17
Syngenta NK S 59-B8	58.2		2.6	1.1	37	10-15
Syngenta NK S 56-W5	57.2		2.4	1.0	35	10-19
Asgrow AG 5633	56.8		1.6	1.0	30	10-13
Terral REV 59R13	55.7		2.1	1.0	38	10-18
AGS 5911LL	54.3		1.9	1.1	35	10-15
Terral REV 55R53	54.0		1.7	1.3	31	10-17
USG 75J62R	53.7		3.0	1.1	42	10-16
Trial mean	57.3	54.2	2.3	1.2	34.5	10-12
LSD(0.10)	3.2	3.3				
CV (%)	8.0	11.7				

[†] Three-year averages not available; this is only the second year of this test.

TABLE 9 PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2012

Variety	Belle Mina	Cross ville	Regional Average				
			Yield	Lodging score	Shattering score	Plant height	Maturity date
----- bu/acre -----			- inches -				
Maturity Group VI							
Progeny P 6710RY	60.3	59.2	59.7	2.1	2.1	37	10-17
R02-3065	57.5	53.5	55.5	1.6	1.6	31	10-15
R03-1250	55.5	53.2	54.3	2.1	2.1	36	10-16
AGS 6011LL	54.4	52.0	53.2	2.0	2.0	32	10-14
SS RT 6810NR2	53.8	50.5	52.2	1.8	1.8	37	10-17
Maturity Group VII							
Progeny P 7310RY	56.5	54.4	55.4	2.0	2.0	32	10-17
Bayer HBK R7028	54.3	52.0	53.2	2.1	2.1	40	10-23
Bayer HBK R7200	34.0	56.1	45.0	2.8	2.8	40	10-15
Trial mean	53.3	53.8	53.6	2.1	2.1	35.6	10-17
LSD(0.10)	4.5	4.5					
CV (%)	8.1	8.0					

TABLE 10. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES IN NORTHERN ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
	----- <i>bu/acre</i> -----						
Maturity Group VI							
Progeny P 6710RY	59.7	51.3	40.9	1.5	1.3	33	10-22
SS RT 6810NR2	52.2	47.2	38.3	1.5	1.2	34	10-23
R02-3065	55.5			1.6	1.0	30	10-15
R03-1250	54.3			2.1	1.0	35	10-17
AGS 6011LL	53.2			2.0	1.0	32	10-14
Maturity Group VII							
Progeny P 7310RY	55.4	54.4	43.3	1.8	1.2	31	10-24
Bayer HBK R7028	53.2			2.1	1.0	40	10-24
Bayer HBK R7200	45.0			2.7	1.0	41	10-16
Trial mean	53.3	51.0	40.8	1.9	1.1	34.4	10-19
LSD(0.10)	4.5	4.5	3.1				
CV (%)	8.1	16.0	17.0				

TABLE 11. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES AT SHORTER, ALABAMA, 2012

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group IV					
Progeny P 4920RY	63.2	0.0	-0.0	37	9-25
Progeny P 4819LL	62.3	0.0	0.0	36	9-25
Progeny P 4900RY	60.9	0.0	0.5	34	9-27
Progeny P 4928LL	58.1	0.0	0.5	38	9-27
Maturity Group V					
Progeny P 5711RY	66.0	0.0	0.0	37	10-3
Progeny P 5160LL	65.6	0.0	0.0	32	9-30
Syngenta NK S 51-H9	65.1	0.0	-0.0	36	9-26
Progeny P 5412RY	63.8	0.0	0.0	38	9-29
TN09-008	63.5	0.0	0.0	35	10-2
Bayer HBK RY5421	63.2	0.5	0.0	33	9-28
Progeny P 5210RY	63.1	0.0	-0.0	38	9-28
Terral REV 51R53	63.0	0.0	0.0	35	9-28
Terral REV 53R23	62.9	0.0	-0.0	32	9-25
Ozark	62.6	0.0	0.0	37	9-27
SS 5112NR2	61.7	0.0	0.0	38	9-26
Terral REV 52R74	60.3	0.0	0.3	41	9-30
Progeny P 5460LL	58.1	-0.0	0.8	38	9-29
Terral REV 54R84	56.6	3.3	0.0	34	9-28
Progeny P 5111RY	56.2	0.0	0.8	41	9-25
Bayer HBK RY5221	55.9	0.0	0.5	43	9-25
Progeny P 5388RY	55.4	3.3	0.0	34	9-29
Bayer HBK RY5425	54.6	0.3	0.0	43	10-6
Trial mean	61.0	0.3	0.1	37	9-28
LSD(0.10)	5.4				
CV (%)	8.4				

TABLE 12. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES AT SHORTER, ALABAMA, THREE-YEAR SUMMARY, 2010-2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
	----- <i>bu/acre</i> -----						
Maturity Group IV							
Progeny P 4928LL	58.1	38.6		0.0	0.5	37.8	9-25
Progeny P 4920RY	63.2			0.0	0.0	34.3	9-10
Progeny P 4819LL	62.3			0.0	0.0	36.0	9-25
Progeny P 4900RY	60.9			0.0	0.5	33.5	9-27
Maturity Group V							
Progeny P 5210RY	63.1	46.7	44.4	0.0	0.0	35.8	9-17
Ozark	62.6	46.5	43.5	0.0	0.0	32.4	9-19
Progeny P 5160LL	65.6	52.2		0.0	0.0	31.8	10-2
Progeny P 5711RY	66.0	50.9		0.0	0.0	34.5	10-5
Terral REV 51R53	63.0	48.9		0.0	0.0	37.3	9-30
Progeny P 5111RY	56.2	41.3		0.0	0.8	39.1	9-24
Progeny P 5460LL	58.1	40.0		0.0	0.8	36.3	9-26
Syngenta NK S 51-H9	65.1			0.0	0.0	35.5	9-26
Progeny P 5412RY	63.8			0.0	0.0	38.0	9-29
TN09-008	63.5			0.0	0.0	34.8	10-2
Bayer HBK RY5421	63.2			0.5	0.0	33.3	9-28
Terral REV 53R23	62.9			0.0	0.0	32.3	9-25
SS 5112NR2	61.7			0.0	0.0	38.0	9-26
Terral REV 52R74	60.3			0.0	0.3	41.3	9-30
Terral REV 54R84	56.6			3.3	0.0	33.5	9-28
Bayer HBK RY5221	55.9			0.0	0.5	42.8	9-25
Progeny P 5388RY	55.4			3.3	0.0	33.8	9-29
Bayer HBK RY5425	54.6			0.3	0.0	43.3	10-6
Trial mean	61.0	45.6	43.9	0.3	0.1	36.1	9-27
LSD(0.10)	5.4	2.2	2.0				
CV (%)	8.4	9.1	8.2				

TABLE 13. PERFORMANCE OF MID-LATE GROUP V SOYBEAN VARIETIES OF SHORTER, ALABAMA, 2012

Variety	Yield - bu/acre -	Lodging score	Shattering score	Plant height - inches -	Maturity date
Maturity Group V					
UA 5612	63.9	0.3	0.0	39.0	9-30
Terral REV 55R53	62.6	0.0	0.0	35.5	10-1
Progeny P 5711RY	62.0	0.0	0.0	35.8	10-2
Terral REV 57R21	61.7	0.0	0.3	39.5	9-28
Terral REV 56R63	61.0	0.0	0.0	41.5	10-2
Osage	60.9	0.0	0.0	34.0	9-30
Asgrow AG 5831	60.1	0.0	0.0	33.5	10-1
Syngenta NK S 56-G6	59.2	0.0	0.0	35.5	9-30
Terral REV 56R21	57.6	0.0	0.0	37.3	9-30
Asgrow AG 5732	57.6	0.3	0.0	37.3	9-28
Progeny P 5610RY	57.1	0.0	0.3	36.8	10-1
Syngenta NK S 57-K3	57.0	0.0	0.0	35.8	10-3
Terral REV 55R83	56.7	0.0	0.0	41.8	9-28
SS 5510NR2	56.7	0.0	0.0	40.8	9-28
Progeny P 5210RY	56.5	0.0	0.0	37.8	9-28
Progeny P 5811RY	56.3	0.0	0.0	35.8	9-28
Bayer HBK RY5521	55.9	0.0	0.5	36.8	9-28
USG 75J62R	55.5	2.0	0.0	46.7	9-28
USG Allen RR	55.4	0.0	0.3	39.0	10-5
Progeny P 5655RY	55.3	0.0	0.0	41.5	9-28
SS 5911NR2	55.3	0.0	0.3	35.5	10-6
Syngenta NK S 59-B8	55.2	0.0	0.3	40.0	10-3
Syngenta NK S 56-W5	54.9	0.0	0.0	40.0	9-30
Progeny P 5960LL	54.7	0.0	0.3	38.5	10-3
Terral REV 59R13	54.0	0.0	0.0	37.3	10-3
AGS 597RR	53.2	0.0	0.0	38.3	10-5
AGS 5911LL	53.0	0.0	0.3	36.0	10-3
Trial mean	57.4	0.1	0.1	38	10-1
LSD(0.10)	5.9				
CV (%)	9.8				

TABLE 14. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES OT SHORTER, ALABAMA, 2012

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
	Maturity Group V				
AGS 6011LL	56.9	0.0	0.3	33.0	9-29
R03-1250	56.9	0.0	-0.0	31.0	10-3
R02-3065	53.1	0.0	0.3	30.3	10-1
SS RT 6810NR2	50.7	0.0	-0.0	35.5	10-16
Asgrow AG 6132	47.5	0.0	0.0	37.3	10-13
Progeny P 6710RY	47.2	0.0	0.0	36.0	10-16
Woodruff	52.7	0.0	0.0	38.5	10-21
Progeny P 7310RY	51.3	0.0	0.0	34.0	10-17
AGS 787 RR	46.4	0.0	0.0	38.5	10-15
Bayer HBK R7028	45.8	0.0	0.0	36.8	10-13
Bayer HBK R7200	41.5	0.3	0.3	46.5	10-9
Henderson	54.0	0.0	0.0	37.0	10-21
Trial mean	50.3	0.0	0.1	36.2	10-12
LSD(0.10)	4.9				
CV (%)	9.2				

TABLE 15. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES AT SHORTER, ALABAMA, THREE-YEAR SUMMARY, 2010-2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
----- <i>bu/acre</i> -----			- <i>inch</i> -				
Maturity Group VI							
Progeny P 6710RY	47.2	48.4	48.4	0.0	0.0	33.9	10-20
Asgrow AG 6132	47.5	45.6	45.6	0.0	0.0	36.8	10-18
AGS 6011LL	56.9			0.0	0.3	33.0	9-29
R03-1250	56.9			0.0	0.0	31.0	10-3
R02-3065	53.1			0.0	0.3	30.3	10-1
SS RT 6810NR2	50.7			0.0	0.0	35.5	10-16
Maturity Group VII							
Woodruff	52.7	53.2	53.2	0.0	0.0	35.9	10-24
Progeny P 7310RY	51.3	51.5	51.5	0.0	0.0	32.3	10-22
AGS 787 RR	46.4			0.0	0.0	38.5	10-15
Bayer HBK R7028	45.8			0.0	0.0	36.8	10-13
Bayer HBK R7200	41.5			0.3	0.3	46.5	10-9
Maturity Group VIII							
Henderson	54.0	54.4	54.4	0.0	0.0	35.8	10-22
Trial mean	50.3	50.6	50.6	0.0	0.1	35.5	10-14
LSD(0.10)	4.9	1.9	1.5				
CV (%)	9.2	6.7	6.7				

TABLE 16. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 2012

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group IV					
Progeny P 4900RY	52.6	1.3	1.5	31	9-25
Progeny P 4928LL	52.3	1.3	1.5	35	9-29
Progeny P 4819LL	50.8	1.0	1.0	31	9-26
Progeny P 4920RY	45.9	2.3	1.0	36	9-25
Maturity Group V					
Dyna-Gro 39RY57	56.8	1.0	1.0	33	10-6
Progeny P 5655RY	55.2	1.5	1.0	37	10-7
Progeny P 5160LL	54.8	1.0	1.0	24	10-2
Progeny P 5610RY	54.5	1.3	1.0	32	10-4
Progeny P 5811RY	54.3	1.0	1.0	33	10-4
Terral REV 56R21	54.3	1.3	1.0	31	10-4
Terral REV 55R83	54.1	1.5	1.0	32	10-5
Progeny P 5960LL	53.9	1.0	1.0	33	10-7
Progeny P 5210RY	53.9	1.0	1.0	33	9-30
Bayer HBK RY5221	52.5	2.5	1.0	38	9-30
Bayer HBK RY5425	52.5	1.5	1.0	43	10-10
Terral REV 51R53	52.5	2.5	1.0	36	10-3
Bayer HBK RY5421	52.4	1.3	1.0	28	9-29
Progeny P 5412RY	52.1	1.3	1.0	32	10-2
Asgrow AG 5831	52.0	1.0	1.0	29	10-4
Terral REV 56R63	51.8	1.5	1.0	33	10-9
Bayer HBK RY5521	51.7	1.0	1.0	29	10-3
Terral REV 55R53	51.6	2.0	1.0	28	10-2
Progeny P 5711RY	51.5	1.0	1.0	30	10-4
Progeny P 5111RY	51.4	1.3	1.5	38	10-1
Terral REV 59R13	50.3	1.0	1.0	37	10-7
Progeny P 5460LL	50.3	1.0	1.5	36	9-29
Terral REV 54R84	49.3	1.5	2.0	26	9-30
TN09-008	47.3	1.0	1.5	26	10-4
Trial mean	52.2	1.3	1.1	32	10-2
LSD(0.10)	5.2				
CV (%)	9.5				

TABLE 17. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
----- bu/acre -----			- inch -				
Maturity Group IV							
Progeny P 4928LL	52.3	41.2		1.1	3.0	35.0	9-22
Progeny P 4900RY	52.6			1.3	1.5	31.3	9-25
Progeny P 4819LL	50.8			1.0	1.0	30.5	9-26
Progeny P 4920RY	45.9			2.1	2.0	31.5	9-24
Maturity Group V							
Progeny P 5610RY	54.5	48.5	42.8	1.3	1.0	30.6	9-24
Terral REV 56R21	54.3	46.6	41.4	1.3	1.2	30.4	9-22
Progeny P 5210RY	53.9	46.7	39.8	1.0	1.2	28.5	9-20
Asgrow AG 5831	52.0	44.4	38.0	1.0	1.0	25.2	9-23
Progeny P 5160LL	54.8	48.3		1.0	1.3	23.7	9-25
Progeny P 5655RY	55.2	47.7		1.4	1.6	38.7	9-28
Progeny P 5811RY	54.3	46.8		1.0	1.3	33.1	9-27
Progeny P 5960LL	53.9	46.6		1.1	1.0	32.7	9-29
Terral REV 56R63	51.8	46.5		1.6	1.0	34.4	9-30
Progeny P 5711RY	51.5	46.1		1.0	1.0	31.1	9-27
Terral REV 51R53	52.5	46.1		2.6	1.3	36.6	9-26
Progeny P 5111RY	51.4	43.3		1.1	2.1	33.6	9-23
Progeny P 5460LL	50.3	40.5		1.0	2.5	35.2	9-25
Dyna-Gro 39RY57	56.8			1.0	1.0	33.3	10-6
Terral REV 55R83	54.1			1.5	1.0	31.8	10-5
Bayer HBK RY5221	52.5			2.5	1.0	38.0	9-30
Bayer HBK RY5425	52.5			1.5	1.0	42.8	10-10
Bayer HBK RY5421	52.4			1.3	1.0	27.5	9-29
Progeny P 5412RY	52.1			1.3	1.0	32.0	10-2
Bayer HBK RY5521	51.7			1.0	1.0	28.5	10-3
Terral REV 55R53	51.6			2.0	1.0	28.0	10-2
Terral REV 59R13	50.3			1.0	1.0	37.3	10-7
Terral REV 54R84	49.3			1.5	2.0	26.3	9-30
TN09-008	47.3			1.0	1.5	26.0	10-4
Trial mean	52.2	45.7	40.5	1.3	1.3	31.9	9-28
LSD(0.10)	5.2	2.3	1.9				
CV (%)	9.5	9.3	9.9				

TABLE 18. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 2012

Variety	Yield - bu/acre -	Lodging score	Shattering score	Plant height - inches -	Maturity date	Iron Chlorosis [†]
Maturity Group IV						
Progeny P 4900RY	26.4	1.0	1.5	21	10-14	2.3
Progeny P 4928LL	25.4	1.0	1.5	19	10-14	1.9
Progeny P 4920RY	20.9	1.0	1.0	20	10-9	3.6
Progeny P 4819LL	16.9	1.0	2.0	15	10-17	5.8
Maturity Group V						
Dyna-Gro 39RY57	38.9	1.0	2.0	19	10-3	1.3
Progeny P 5655RY	37.1	1.0	1.5	22	10-3	2.1
Asgrow AG 5831	29.1	1.0	1.0	17	10-4	1.3
Progeny P 5960LL	28.8	1.0	1.0	22	10-4	1.0
Progeny P 5210RY	27.6	1.0	1.0	16	10-3	1.6
Terral REV 56R63	26.6	1.0	1.0	18	10-12	3.9
Progeny P 5610RY	25.7	1.0	1.5	21	10-11	1.6
Terral REV 51R53	25.0	1.0	1.0	22	10-15	4.8
Progeny P 5160LL	23.6	1.0	1.0	14	10-3	1.9
Terral REV 59R13	23.3	1.0	1.0	17	10-13	4.8
Progeny P 5711RY	22.2	1.0	1.5	14	10-6	4.6
Terral REV 55R83	21.0	1.0	1.5	18	10-11	3.8
Terral REV 56R21	19.9	1.0	1.0	15	10-15	4.6
Bayer HBK RY5221	18.9	1.0	1.0	18	10-19	5.1
Bayer HBK RY5421	17.7	1.0	1.5	13	10-14	4.6
Bayer HBK RY5521	17.6	1.0	2.0	17	10-17	4.8
Bayer HBK RY5425	17.2	1.0	1.0	19	10-21	6.8
Progeny P 5460LL	14.7	1.0	2.8	17	10-16	4.6
Progeny P 5811RY	13.7	1.0	1.5	13	10-18	6.0
Progeny P 5412RY	13.4	1.0	1.0	14	10-14	5.6
Terral REV 54R84	7.7	1.0	2.0	11	10-16	6.1
Terral REV 55R53	4.9	1.0	3.0	12	10-19	5.8
TN09-008	2.1	1.0	3.0	9	10-15	8.0
Progeny P 5111RY	0.0					9.3
Trial mean	20.2	1.0	1.5	17	10-12	4.2
LSD(0.10)	7.2					
CV (%)	33.6					

[†] Iron chlorosis ratings made on July 24, 2012. 1 = no chlorosis; 10 = plants losing leaves due to necrotic spots on leaves.

TABLE 19. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield		Lodging score	Shattering score	Plant height	Maturity date	Iron Chlorosis
	2012	2-yr avg					
----- bu/acre -----			- inch -				
Maturity Group IV							
Progeny P 4928LL	25.4	16.4	1.0	1.3	16.4	10-11	4.6
Progeny P 4900RY	26.4		1.0	1.5	20.5	10-14	2.3
Progeny P 4920RY	20.9		1.0	1.0	19.5	10-9	5.4
Progeny P 4819LL	16.9		1.0	2.0	15.0	10-17	5.8
Maturity Group V							
Progeny P 5210RY	27.6	19.8	1.0	1.3	14.3	9-30	4.7
Asgrow AG 5831	29.1	18.8	1.0	1.3	15.1	9-28	3.9
Progeny P 5610RY	25.7	19.8	1.0	2.1	18.4	10-4	4.2
Terral REV 56R21	19.9	14.8	1.0	1.0	14.7	10-12	6.6
Progeny P 5655RY	37.1	27.4	1.0	3.0	21.1	9-30	2.3
Progeny P 5960LL	28.8	22.7	1.0	1.6	21.0	10-1	1.0
Terral REV 51R53	25.0	19.0	1.0	1.3	20.3	10-13	5.9
Terral REV 56R63	26.6	18.8	1.0	1.3	16.7	10-10	4.7
Progeny P 5711RY	22.2	17.3	1.0	1.9	14.3	9-30	4.6
Progeny P 5160LL	23.6	16.1	1.0	1.6	13.0	9-29	2.9
Progeny P 5811RY	13.7	10.2	1.0	1.7	13.8	10-14	6.3
Progeny P 5460LL	14.7	9.9	1.0	2.4	17.1	10-13	5.3
Progeny P 5111RY	0.0	1.8	1.0	3.7	11.0	9-18	6.7
Dyna-Gro 39RY57	38.9		1.0	2.0	18.8	10-3	1.3
Terral REV 59R13	23.3		1.0	1.0	16.5	10-13	4.8
Terral REV 55R83	21.0		1.0	1.5	18.3	10-11	3.8
Bayer HBK RY5221	18.9		1.0	1.0	17.8	10-19	5.1
Bayer HBK RY5421	17.7		1.0	1.5	12.8	10-14	4.6
Bayer HBK RY5521	17.6		1.0	2.0	16.5	10-17	4.8
Bayer HBK RY5425	17.2		1.0	1.0	19.0	10-21	6.8
Progeny P 5412RY	13.4		1.0	1.0	13.7	10-14	5.6
Terral REV 54R84	7.7		1.0	2.0	11.3	10-16	6.1
Terral REV 55R53	4.9		1.0	3.0	12.0	10-19	5.8
TN09-008	2.1		1.0	3.0	9.0	10-15	8.0
Trial mean	20.2	16.6	1.0	1.7	16.0	10-9	4.8
LSD(0.10)	7.2	3.4					
CV (%)	33.6	38.0					

TABLE 20. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 2012

Variety	Yield - bu/acre -	Lodging score	Shattering score	Plant height - inches -	Maturity date
Maturity Group VI					
Asgrow AG 6132	56.2	1.0	1.0	38	10-12
NK Brand S67-R6	56.2	1.0	1.0	37	10-17
NK Brand S68-D4	54.6	2.5	1.0	36	10-12
Dyna-Gro 36RY68	54.5	1.3	1.0	39	10-17
Progeny P 6710RY	54.2	1.0	1.0	38	10-17
Asgrow AG 6732	47.9	1.0	1.0	36	10-16
Maturity Group VII					
Bayer HBK R7028	61.1	1.0	1.0	36	10-18
Progeny P 7310RY	59.7	1.5	1.0	35	10-16
NK Brand S74-M3	59.4	1.0	1.0	37	10-17
Dyna-Gro 34RY75	56.6	1.8	1.0	38	10-18
Dyna-Gro V76N9RR	56.6	1.8	1.0	36	10-19
NK Brand S77-T7	55.5	1.8	1.0	39	10-16
AGS 787 RR	55.2	1.5	1.0	36	10-16
Woodruff	52.5	2.3	1.0	39	10-17
NK Brand S78-G6	49.8	1.5	1.0	40	10-16
Bayer HBK R7200	43.0	1.3	1.0	45	10-14
Maturity Group VIII					
Henderson	57.1	1.3	1.0	37	10-19
Trial mean	54.7	1.4	1.0	38	10-16
LSD(0.10)	3.6				
CV (%)	6.2				

TABLE 21. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
	----- bu/acre -----			- inch -			
Maturity Group VI							
Dyna-Gro 36RY68	54.5	49.9	42.3	1.1	1.4	34.5	10-13
Progeny P 6710RY	54.2	49.1	41.5	1.2	1.0	34.8	10-13
NK Brand S68-D4	54.6	49.1		1.9	1.0	35.9	10-10
Asgrow AG 6132	56.2	47.8		1.1	1.3	37.0	10-10
Asgrow AG 6732	47.9	43.6		1.1	1.3	34.3	10-14
NK Brand S67-R6	56.2			1.0	1.0	36.5	10-17
Maturity Group VII							
Progeny P 7310RY	59.7	53.2	45.6	1.3	1.2	31.3	10-12
Woodruff	52.5	47.6	40.2	2.1	1.2	35.3	10-15
Dyna-Gro V76N9RR	56.6	48.0	39.3	1.5	2.1	33.8	10-17
NK Brand S78-G6	49.8	43.7		1.9	1.0	38.7	10-17
Bayer HBK R7028	61.1			1.0	1.0	35.8	10-18
NK Brand S74-M3	59.4			1.0	1.0	37.0	10-17
Dyna-Gro 34RY75	56.6			1.8	1.0	38.3	10-18
NK Brand S77-T7	55.5			1.8	1.0	38.8	10-16
AGS 787 RR	55.2			1.5	1.0	36.0	10-16
Bayer HBK R7200	43.0			1.3	1.0	44.8	10-14
Maturity Group VIII							
Henderson	57.1	52.3	39.3	1.2	1.7	31.8	10-16
Trial mean	54.7	48.4	41.4	1.4	1.2	36.1	10-15
LSD(0.10)	3.6	2.0	2.5				
CV (%)	6.0	7.7	13.6				

TABLE 22. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 2012

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date	Iron Chlorosis [†]
	- bu/acre -			- inches -		
Maturity Group VI						
NK Brand S68-D4	44.3	1.0	1.0	23	10-14	1.1
NK Brand S67-R6	42.1	1.0	1.0	23	10-18	2.5
Asgrow AG 6732	39.5	1.0	1.0	21	10-17	1.1
Progeny P 6710RY	38.6	1.0	1.0	20	10-16	1.5
Dyna-Gro 36RY68	35.4	1.0	1.0	19	10-16	1.3
Asgrow AG 6132	23.6	1.0	2.0	16	10-17	3.5
Maturity Group VII						
NK Brand S78-G6	43.3	1.0	1.0	25	10-18	1.3
Woodruff	38.9	1.0	1.0	19	10-21	2.9
Progeny P 7310RY	38.0	1.0	1.0	17	10-18	2.4
Dyna-Gro V76N9RR	37.4	1.0	1.0	18	10-19	3.6
NK Brand S77-T7	34.8	1.0	1.0	18	10-18	4.3
AGS 787 RR	33.2	1.0	1.0	19	10-21	3.8
Dyna-Gro 34RY75	31.9	1.0	1.0	16	10-18	4.5
Bayer HBK R7028	31.2	1.0	1.0	18	10-19	4.1
NK Brand S74-M3	29.2	1.0	1.0	18	10-19	2.8
Bayer HBK R7200	0.0					8.8
Maturity Group VIII						
Henderson	35.7	1.0	1.0	20	10-19	4.0
Trial mean	33.9	1.0	1.1	19.3	10-18	3.1
LSD(0.10)	8.9					
CV (%)	24.8					

[†] Iron chlorosis ratings made on July 24, 2012. 1 = no chlorosis; 10 = plants losing leaves due to necrotic spots on leaves.

TABLE 23. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 2010 - 2012

Variety	Yield		Lodging score	Shattering score	Plant height	Maturity date	Iron Chlorosis
	2012	2-yr avg					
	----- bu/acre -----			- inch -			
Maturity Group VI							
Progeny P 6710RY	38.6	27.1	1.0	1.0	16.1	10-17	3.1
Dyna-Gro 36RY68	35.4	26.3	1.0	1.3	17.1	10-16	4.3
NK Brand S68-D4	44.3	33.1	1.0	1.0	20.4	10-15	1.1
Asgrow AG 6732	39.5	30.7	1.0	2.4	17.9	10-18	1.1
Asgrow AG 6132	23.6	16.9	1.0	2.3	16.0	10-19	5.6
NK Brand S67-R6	42.1		1.0	1.0	23.0	10-18	2.5
Maturity Group VII							
Woodruff	38.9	30.5	1.0	1.3	17.1	10-23	5.9
Dyna-Gro V76N9RR	37.4	29.9	1.0	1.9	17.3	10-21	5.9
Progeny P 7310RY	38.0	30.0	1.0	1.0	15.9	10-19	5.2
NK Brand S78-G6	43.3	34.3	1.0	1.0	22.3	10-19	1.3
NK Brand S77-T7	34.8		1.0	1.0	18.0	10-18	4.3
AGS 787 RR	33.2		1.0	1.0	18.8	10-21	3.8
Dyna-Gro 34RY75	31.9		1.0	1.0	16.0	10-18	4.5
Bayer HBK R7028	31.2		1.0	1.0	18.3	10-19	4.1
NK Brand S74-M3	29.2		1.0	1.0	17.5	10-19	2.8
Bayer HBK R7200	0.0						8.8
Maturity Group VIII							
Henderson	35.7	28.6	1.0	1.6	19.6	10-22	6.4
Trial mean	33.9	28.7	1.0	1.3	18.2	10-19	4.1
LSD(0.10)	5.2	2.9					
CV (%)	20.4	18.8					

TABLE 24. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 2012

Variety	Yield - bu/acre -	Lodging score	Shattering score	Plant height - inches -	Maturity date
Maturity Group IV					
Progeny P 4928LL	51.7	3.8	3.5	41	9-29
Progeny P 4900RY	46.4	3.0	2.5	33	10-3
Progeny P 4920RY	44.0	4.0	1.0	36	9-30
Progeny P 4819LL	43.4	3.8	1.8	34	10-1
Maturity Group V					
Progeny P 5711RY	59.0	2.5	1.8	32	10-7
Terral REV 54R84	55.8	2.8	2.4	25	10-5
Terral REV 51R53	55.3	3.8	1.3	38	10-7
Progeny P 5460LL	54.7	3.1	2.9	38	10-3
Progeny P 5412RY	54.4	2.8	1.5	33	10-6
AGS 597RR	54.3	2.5	1.0	31	10-9
TN09-008	54.1	2.5	1.5	29	10-7
Terral REV 56R21	52.6	2.5	1.8	26	10-7
Terral REV 55R83	52.5	2.0	1.5	33	10-6
Terral REV 55R53	52.2	3.0	2.0	30	10-6
Progeny P 5610RY	51.6	3.0	2.0	29	10-8
Progeny P 5655RY	51.2	2.8	2.5	35	10-6
Dyna-Gro 39RY57	50.6	2.5	2.5	29	10-5
Progeny P 5210RY	50.0	2.5	1.3	26	10-6
Terral REV 56R63	49.5	3.0	1.3	33	10-8
Progeny P 5811RY	47.6	2.5	2.3	28	10-7
Progeny P 5111RY	47.5	3.0	2.8	47	10-7
Progeny P 5160LL	45.1	2.3	1.3	24	10-8
Terral REV 59R13	43.1	3.0	1.0	36	10-8
Progeny P 5960LL	37.7	2.5	2.3	28	10-10
AGS 5911LL	35.2	3.0	2.3	33	10-8
Trial mean	49.6	2.9	1.9	32	10-6
LSD(0.10)	8.5				
CV (%)	16.3				

TABLE 25. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, THREE-YEAR SUMMARY, 2010-2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
----- <i>bu/acre</i> -----			- <i>inch</i> -				
Maturity Group IV							
Progeny P 4928LL	51.7	34.3		3.4	3.0	34.4	10-5
Progeny P 4900RY	46.4			3.0	2.5	32.5	10-3
Progeny P 4920RY	44.0			3.1	1.6	34.1	9-14
Progeny P 4819LL	43.4			3.8	1.8	34.3	10-1
Maturity Group V							
Terral REV 56R21	52.6	46.0	50.2	2.5	1.5	29.3	9-20
Progeny P 5610RY	51.6	40.1	46.7	2.7	2.0	28.5	9-25
Progeny P 5210RY	50.0	37.9	43.9	2.3	1.5	24.9	9-24
Terral REV 51R53	55.3	44.7		3.6	1.5	36.0	10-9
Progeny P 5160LL	45.1	43.2		2.1	1.4	22.0	10-8
Progeny P 5111RY	47.5	41.4		2.5	2.3	38.0	10-4
Progeny P 5655RY	51.2	41.4		2.4	2.1	32.5	10-7
Progeny P 5811RY	47.6	40.7		2.4	1.9	25.8	10-7
Progeny P 5460LL	54.7	40.6		2.9	2.8	34.1	10-6
Progeny P 5711RY	59.0	40.2		2.3	1.6	25.9	10-8
Terral REV 56R63	49.5	39.0		2.9	1.4	29.4	10-10
Progeny P 5960LL	37.7	36.0		2.4	1.6	28.5	10-11
Terral REV 54R84	55.8			2.8	2.4	24.9	10-5
Progeny P 5412RY	54.4			2.8	1.5	33.0	10-6
AGS 597RR	54.3			2.5	1.0	31.3	10-9
TN09-008	54.1			2.5	1.5	28.5	10-7
Terral REV 55R83	52.5			2.0	1.5	32.5	10-6
Terral REV 55R53	52.2			3.0	2.0	30.3	10-6
Dyna-Gro 39RY57	50.6			2.5	2.5	29.0	10-5
Terral REV 59R13	43.1			3.0	1.0	35.8	10-8
AGS 5911LL	35.2			3.0	2.3	32.8	10-8
Trial mean	49.6	40.4	46.9	2.7	1.8	30.7	10-4
LSD(0.10)	5.3	5.3	2.7				
CV (%)	14.3	24.6	12.2				

TABLE 26. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 2012

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group VI					
Asgrow AG 6931	55.9	3.0	1.0	35	10-19
Dyna-Gro 36RY68	55.0	2.0	1.0	31	10-19
Progeny P 6710RY	54.0	2.3	1.0	35	10-19
Asgrow AG 6732	53.1	2.5	1.0	34	10-19
AGS 6011LL	48.2	2.5	1.8	26	10-18
Maturity Group VII					
Progeny P 7310RY	61.2	2.0	1.0	32	10-20
Dyna-Gro 34RY75	58.9	2.0	1.0	34	10-19
Asgrow AG 7733	58.5	2.3	1.0	34	10-20
Asgrow AG 7231	58.4	2.0	1.0	31	10-19
Dyna-Gro V76N9RR	58.1	2.8	1.8	30	10-22
Asgrow AG 7532	54.4	3.0	1.0	34	10-19
Asgrow AG 7333	54.0	2.3	1.0	34	10-19
AGS 787 RR	51.0	3.0	1.0	32	10-19
Woodruff	51.0	3.0	1.0	33	10-19
Maturity Group VIII					
Henderson	56.4	3.0	1.0	34	10-24
Trial mean	55.2	2.5	1.1	33	10-19
LSD(0.10)	5.0				
CV (%)	8.5				

TABLE 27. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, THREE-YEAR SUMMARY, 2010-2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
----- bu/acre -----			- inch -				
Maturity Group VI							
Asgrow AG 6931	55.9	48.8	53.4	2.6	1.0	33.8	10-4
Progeny P 6710RY	54.0	39.9	47.4	2.0	1.0	29.3	10-5
Dyna-Gro 36RY68	55.0	39.9	46.8	1.8	1.0	28.7	10-4
Asgrow AG 6732	53.1	47.5		2.3	1.4	29.4	10-22
AGS 6011LL	48.2			2.5	1.8	26.3	10-18
Maturity Group VII							
Woodruff	51.0	53.1	53.4	3.2	1.0	31.1	10-3
Progeny P 7310RY	61.2	42.0	50.8	2.0	1.1	27.8	10-4
Dyna-Gro V76N9RR	58.1	43.9	50.5	2.5	1.3	32.2	10-2
Asgrow AG 7231	58.4	38.6	47.5	2.2	1.0	27.8	10-2
Asgrow AG 7532	54.4	46.9		2.5	1.0	30.5	10-22
Dyna-Gro 34RY75	58.9			2.0	1.0	33.8	10-19
Asgrow AG 7733	58.5			2.3	1.0	34.0	10-20
Asgrow AG 7333	54.0			2.3	1.0	33.5	10-19
AGS 787 RR	51.0			3.0	1.0	30.3	10-19
Maturity Group VIII							
Henderson	56.4	42.9	46.5	2.8	1.1	29.9	10-6
Trial mean	55.2	44.3	49.5	2.4	1.1	30.5	10-11
LSD(0.10)	5.0	5.5	4.4				
CV (%)	8.5	23.2	19.9				

TABLE 28. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES AT BREWTON, ALABAMA, 2012

Variety	Yield - bu/acre -	Lodging score	Shattering score	Plant height - inches -	Maturity date
Maturity Group IV					
Progeny P 4920RY	53.2	1.0	0.0	28	9-30
Progeny P 4928LL	52.5	1.0	0.0	28	10-4
Progeny P 4900RY	52.0	1.0	0.3	26	9-30
Progeny P 4819LL	51.9	1.0	0.3	25	9-27
Maturity Group V					
Terral REV 54R84	64.9	1.0	-0.0	24	10-12
Terral REV 55R53	62.9	1.0	0.3	21	10-9
Progeny P 5711RY	61.6	1.0	-0.0	24	10-13
AGS 5911LL	61.5	1.0	-0.0	25	10-13
Progeny P 5412RY	61.0	1.0	-0.0	27	10-10
Progeny P 5210RY	60.9	1.0	-0.0	26	10-8
UA 5612	60.5	1.0	-0.0	26	10-10
Progeny P 5160LL	60.3	1.0	-0.0	20	10-9
Progeny P 5111RY	59.0	1.0	0.3	34	10-6
Progeny P 5960LL	58.2	1.0	-0.0	24	10-13
Terral REV 56R63	57.3	1.0	-0.0	27	10-13
Progeny P 5811RY	56.7	1.0	-0.0	26	10-10
Terral REV 51R53	56.7	1.0	-0.0	31	10-6
TN09-008	56.0	1.0	0.7	22	10-9
Progeny P 5655RY	54.3	1.0	-0.0	29	10-10
Terral REV 59R13	54.3	1.0	-0.0	26	10-10
Progeny P 5460LL	54.3	1.0	0.2	29	10-7
Progeny P 5610RY	54.0	1.0	0.3	26	10-10
Terral REV 55R83	53.3	1.0	-0.0	25	10-12
Terral REV 56R21	52.9	1.0	-0.0	25	10-8
AGS 597RR	52.4	1.0	-0.0	27	10-12
Ozark	52.0	1.0	0.0	23	10-7
Osage	51.1	1.0	0.0	22	10-10
Trial mean	56.5	1.0	0.1	26	10-8
LSD(0.10)	3.7				
CV (%)	6.2				

TABLE 29. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES AT BREWTON, ALABAMA, THREE-YEAR SUMMARY, 2010-2012

Variety	Yield			Lodging score	Shattering score	Plant height - inch -	Maturity date
	2012	2-yr avg	3-yr avg				
	----- bu/acre -----						
Maturity Group IV							
Progeny P 4928LL	52.5	34.9		1.0	0.0	29.0	9-23
Progeny P 4920RY	53.2			1.7	3.3	30.7	9-13
Progeny P 4900RY	52.0			1.0	0.3	25.7	9-30
Progeny P 4819LL	51.9			1.0	0.3	25.3	9-27
Maturity Group VI							
Progeny P 5210RY	60.9	42.4	46.3	1.0	0.0	25.0	9-18
Progeny P 5610RY	54.0	43.0	45.8	1.0	0.2	24.9	9-18
Terral REV 56R21	52.9	38.5	43.5	1.0	0.0	25.0	9-16
Ozark	52.0	38.8	43.0	1.0	0.0	23.0	9-16
Osage	51.1	34.5	35.8	1.0	1.7	21.8	9-16
Terral REV 56R63	57.3	49.8		1.0	0.0	25.3	10-3
Progeny P 5711RY	61.6	45.3		1.0	0.0	23.8	10-2
Progeny P 5160LL	60.3	44.7		1.0	0.0	19.8	9-27
Progeny P 5111RY	59.0	43.0		1.0	0.3	28.0	9-25
Progeny P 5960LL	58.2	42.2		1.0	0.0	25.3	10-2
Terral REV 51R53	56.7	41.9		1.0	0.0	34.7	9-26
Progeny P 5811RY	56.7	40.8		1.0	0.0	26.0	9-28
Progeny P 5655RY	54.3	39.3		1.0	0.0	26.8	9-28
AGS 597RR	52.4	37.6		1.0	0.0	25.5	10-2
Progeny P 5460LL	54.3	37.5		1.0	0.2	30.3	9-29
Terral REV 54R84	64.9			1.0	0.0	24.3	10-12
Terral REV 55R53	62.9			1.0	0.3	21.3	10-9
AGS 5911LL	61.5			1.0	0.0	25.3	10-13
Progeny P 5412RY	61.0			1.0	0.0	26.7	10-10
UA 5612	60.5			1.0	0.0	25.7	10-10
TN09-008	56.0			1.0	0.7	22.3	10-9
Terral REV 59R13	54.3			1.0	0.0	26.3	10-10
Terral REV 55R83	53.3			1.0	0.0	24.7	10-12
Trial mean	56.5	40.9	42.9	1.0	0.3	25.7	9-29
LSD(0.10)	2.4	3.5	2.3				
CV (%)	5.7	15.9	11.4				

TABLE 30. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES AT BREWTON, ALABAMA, 2012

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group VI					
Asgrow AG 6732	67.5	1.0	0.0	29	10-25
Progeny P 6710RY	64.3	1.0	0.0	24	10-18
NK Brand S67-R6	63.2	1.0	0.0	30	10-19
NK Brand S68-D4	58.7	1.0	0.0	29	10-14
Asgrow AG 6931	56.8	1.0	-0.0	31	10-20
AGS 6011LL	53.6	1.0	0.7	23	10-4
R03-1250	51.5	1.0	-0.0	21	10-9
R02-3065	51.2	1.0	0.3	20	10-9
Maturity Group VII					
NK Brand S77-T7	70.9	1.0	0.0	28	10-21
NK Brand S74-M3	68.5	1.0	0.0	27	10-20
Progeny P 7310RY	65.4	1.0	0.0	24	10-19
Asgrow AG 7733	63.4	1.0	0.0	31	10-24
Asgrow AG 7231	63.0	1.0	0.0	26	10-20
NK Brand S78-G6	61.9	1.0	0.0	32	10-22
Asgrow AG 7333	61.0	1.0	0.0	29	10-20
Asgrow AG 7532	60.3	1.0	0.0	27	10-19
Maturity Group VIII					
Henderson	59.5	1.0	-0.0	31	10-24
Trial mean	61.2	1.0	0.1	27	10-18
LSD(0.10)	3.4				
CV (%)	5.2				

TABLE 31. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, THREE-YEAR SUMMARY, 2010-2012

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2012	2-yr avg	3-yr avg				
----- bu/acre -----			- inch -				
Maturity Group VI							
Asgrow AG 6931	56.8	49.5	48.6	1.0	0.0	31.8	9-30
Progeny P 6710RY	64.3	50.0	46.9	1.0	0.0	27.6	10-1
Asgrow AG 6732	67.5	51.3		1.0	0.0	27.3	10-21
NK Brand S68-D4	58.7	46.7		1.0	0.0	30.7	10-10
NK Brand S67-R6	63.2			1.0	0.0	30.0	10-19
AGS 6011LL	53.6			1.0	0.7	23.3	10-4
R03-1250	51.5			1.0	0.0	20.7	10-9
R02-3065	51.2			1.0	0.3	20.0	10-9
Maturity Group VII							
Progeny P 7310RY	65.4	52.7	53.4	1.0	0.0	26.4	10-2
Asgrow AG 7231	63.0	48.9	47.2	1.0	0.0	28.0	9-30
NK Brand S78-G6	61.9	50.5		1.0	0.0	35.3	10-19
Asgrow AG 7532	60.3	48.3		1.0	0.0	28.2	10-18
NK Brand S77-T7	70.9			1.0	0.0	28.3	10-21
NK Brand S74-M3	68.5			1.0	0.0	26.7	10-20
Asgrow AG 7733	63.4			1.0	0.0	31.0	10-24
Asgrow AG 7333	61.0			1.0	0.0	29.0	10-20
Maturity Group VIII							
Henderson	59.5	53.8	50.1	1.0	0.0	34.9	10-3
Trial mean	61.2	50.2	49.2	1.0	0.1	28.2	10-12
LSD(0.10)	3.4	2.7	2.6				
CV (%)	5.2	9.9	11.4				

TABLE 32. CULTURAL PRACTICES FOR SOYBEAN VARIETY TESTS IN 2012

Location	Type of test	Date planted	Row width	Herbicide applied	Fertilizer applied
			<i>- inches -</i>		
Belle Mina	Group IV	April 25	30	Reflex, Select Max	none recommended
	Group IV-V	June 7	30	Valor	none recommended
	Group Mid-Late V	June 7	30	Valor	none recommended
	Group VI-VII	June 7	30	Valor	none recommended
Crossville	Group IV	April 25	30	Dual, Valor	none recommended
	Group IV-V	May 29	30	Dual, Valor	none recommended
	Group Mid-Late V	June 6	30	Dual, Valor	none recommended
	Group VI-VII	June 7	30	Dual, Valor	none recommended
Tallassee	Group IV	May 8	30	None	none recommended
Shorter	Group IV-V	June 7	36	Dual, Prowl	none recommended
	Group VI-VII	June 7	36	Dual, Prowl	none recommended
Marion Junction	Group IV-V (Sumter)	June 4	36	Basagram, Poast	none recommended
	Group VI-VII (Sumter)	June 4	36	Basagram, Poast	none recommended
	Group IV-V (Vaiden)	June 4	36	Basagram, Poast	none recommended
	Group VI-VII (Vaiden)	June 4	36	Basagram, Poast	none recommended
Brewton	Group IV-V	June 20	36	Dual	none recommended
	Group VI-VII	June 20	36	Dual	none recommended
Fairhope	Group IV-V	May 31	38	Dual, Storm	none recommended
	Group VI-VII	May 31	38	Dual, Storm	none recommended

TABLE 33. SOIL TYPES FOR SOYBEAN TESTS, 2012

Location	Soil Type
Belle Mina	Emory silt loam
Crossville	Wynnville fine sandy loam
Tallassee	Augusta silt loam
Shorter	Cowarts loamy sand
Marion Junction	Sumter clay (high pH soil)
Marion Junction	Vaiden clay
Fairhope	Malbis fine sandy loam

TABLE 35. ENTRIES AND SOURCES OF SEED FOR SOYBEAN TESTS, 2012

Source	Entry
AG South Genetics, LLC Albany, Georgia	AGS brand varieties, Woodruff
Auburn University Auburn, Alabama	Henderson (formerly Au 02-2814)
Bayer CropScience DeWitt, Arkansas	HBK brand varieties
Crop Production Services Leland, Mississippi	Dyna-Gro brand varieties
Monsanto St. Louis, Missouri	Asgrow AG brand varieties
Progeny Ag Products Wynne, Arkansas	Progeny brand varieties
Stratton Seed Co. Stuttgart, Arkansas	Schillinger brand varieties, GoSoy brand varieties
Southern States Coop. Richmond, Virginia	SS brand varieties
Syngenta/NK Brand Seed Indianola, Mississippi	NK S brand varieties
Terral Seed, Inc. Lake Providence, Louisiana	Terral REV brand varieties
UniSouth Genetics, Inc. Dickson, Tennessee	USG brand varieties, Allen RR
University of Arkansas Fayetteville, Arkansas	UA 5612, R02-3065, R03-1250, Osage, Ozark
University of Tennessee Knoxville, Tennessee	TN09-008, TN09-029