

*Performance
of Soybean
Varieties in
Alabama,
2011*

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TABLE OF CONTENTS

Introduction	4
Experimental procedures	4
Seasonal conditions	5
Comparing varieties.....	5
Acknowledgements	5
Locations of experiments	
NORTHERN ALABAMA	
Table 1. Performance of Group IV Soybean Varieties in Northern Alabama, 2011	6
Table 2. Performance of Group IV Soybean Varieties at Belle Mina, Three-year Summary, 2009 - 2011.....	7
Table 3. Performance of Group IV Soybean Varieties at Tallassee Alabama, 2011	8
Table 4. Performance of Group IV Soybean Varieties at at Tallassee., Three-year Summary, 2009 - 2011.....	9
Table 5. Performance of Group IV and V Soybean Varieties in Northern Alabama, 2011	10
Table 6. Performance of Group IV and V Soybean Varieties in Northern Alabama, Three-year Summary, 2009 - 2011.....	12
Table 7. Performance of Group V Soybean Varieties in Northern Alabama, 2011	14
Table 8. Performance of Group VI and VII Soybean Varieties in Northern Alabama, 2011	16
Table 9. Performance of Group VI and VII Soybean Varieties in Northern Alabama, Three-year Summary, 2009 - 2011.....	17
CENTRAL ALABAMA	
Table 10. Performance of Soybean Varieties at Shorter, Alabama, 2011.....	18
Table 11. Performance of Soybean Varieties at Shorter, Alabama, Three-year Summary, 2009 - 2011.....	20
Table 12. Performance of Group VI and VII Soybean Varieties at Shorter, Alabama, 2011	21
Table 13. Performance of Group VI and VII Soybean Varieties at Shorter, Alabama, Three-year Summary, 2009 - 2011.....	22
Table 14. Performance of of Group IV and V Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 2011	24
Table 15. Performance of Group IV and V Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 2011, Three-year Summary, 2009 - 2011	25
Table 16. Performance of of Group IV and V Soybean Varieties on Sumter Soil, Marion Junction, Alabama, 2011	26

Table 17. Performance of of Group VI and VII Soybean Varieties on Vaiden Soil,
 Marion Junction, Alabama, 201127

Table 18. Performance of Group VI and VII Soybean Varieties on Vaiden Soil,
 Marion Junction, Alabama, 2011, Three-year Summary, 2009 - 201128

Table 19. Performance of of Group VI and VII Soybean Varieties on Sumter Soil,
 Marion Junction, Alabama, 201129

SOUTHERN ALABAMA

Table 20. Performance of Soybean Varieties at Fairhope, Alabama, 201130

Table 21. Performance of Soybean Varieties at Fairhope, Alabama,
 Three-year Summary, 2009 - 201131

Table 22 Performance of Group VI and VII Soybean Varieties at Fairhope, Alabama, 201132

Table 23 Performance of Group VI and VII Soybean Varieties at Fairhope, Alabama,
 Three-year Summary, 2009 - 201133

Table 24. Performance of Soybean Varieties at Brewton, Alabama, 201134

Table 25. Performance of Soybean Varieties at Brewton, Alabama,
 Three-year Summary, 2009 and 201136

Table 26. Performance of Soybean Varieties at Brewton, Alabama, 201138

Table 27. Performance of Soybean Varieties at Brewton, Alabama,
 Three-year Summary, 2009 and 201139

ANCILLARY INFORMATION

Table 28. Cultural Practices for Soybean Variety Tests in 201140

Table 29. Soil Types for Soybean Tests, 201140

Table 30. Rainfall at Test Locations During Growing Season, 201141

Table 31. Entries and Sources of Seed for Soybean Tests, 201142

PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 2011

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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 2011 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 2011 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 3. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN TALLASSEE, ALABAMA, 2011

Variety	Yield - bu/acre -	Lodging score	Shattering score	Plant height - inches -	Maturity date
Maturity Group IV					
Terral REV 49R22	52.0	1.0	2.3	29	9-6
Asgrow AG 4831	49.1	1.8	1.3	27	9-12
Asgrow AG 4932	48.3	1.0	2.5	29	9-8
SS RT 4808N	46.1	1.0	1.8	25	9-11
SS RT 4996N	46.1	1.0	2.0	28	9-9
SS 4711NR2	44.9	1.0	1.8	28	9-5
Terral REV 48R21	44.8	1.0	2.8	24	9-3
Terral REV 48R22	43.2	1.0	1.5	26	8-30
Terral REV 44R22	43.2	1.0	1.5	24	8-28
SS 4700R2	42.6	1.0	2.0	23	9-12
Terral REV 48R10	42.4	1.0	1.5	23	9-2
Terral REV 47R53	40.9	1.0	1.8	25	9-3
Terral REV 49R11	39.1	1.0	2.0	25	8-26
Terral REV 47R22	38.8	1.0	2.5	25	9-4
Terral REV 49R43	37.6	1.0	1.5	23	8-31
Terral REV 48R33	37.0	1.0	1.3	28	8-30
Terral REV 45R10	36.2	1.0	2.3	30	8-26
Terral REV 46R73	33.3	1.0	2.3	29	8-26
SS LL 491N [†]	19.2	1.0	2.0	24	9-15
SS LL 499N [†]	16.8	1.3	2.0	24	9-21
Maturity Group V					
SS RT 5160N	42.5	1.0	1.0	31	9-12
Trial mean	42.5	1.0	1.3	33	8-28
LSD(0.10)	7.1				
CV (%)	16.4				

[†] These entries suffered damage from Round-up. They were not included in the calculation of the trial mean.

TABLE 5. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2011

Variety				Regional Average			
	Belle Mina	Cross ville	Yield	Lodging score	Shattering score	Plant height	Maturity date
	----- bu/acre -----					- inches -	
Maturity Group IV							
Croplan Genetics R2C4541	41.9	67.2	54.6	2.9	1.1	37	9-17
Croplan Genetics RC4207	33.3	68.9	51.1	2.2	1.8	36	9-20
Croplan Genetics R2C4520	35.9	63.6	49.7	1.6	1.3	35	9-15
Progeny P 4811RY	40.8	54.2	47.5	2.7	1.6	37	9-19
Progeny P 4710RY	37.3	55.4	46.4	2.6	1.6	36	9-21
Croplan Genetics R2C4391	32.6	58.7	45.6	1.9	1.4	34	9-21
Croplan Genetics RC 4757	35.8	53.4	44.6	1.8	1.5	32	9-19
Progeny P 4928LL	31.9	51.7	41.8	2.6	1.7	34	9-21
Croplan Genetics R2C4801	30.7	51.6	41.1	2.1	1.9	39	9-18
Progeny P 4908RR	36.9	44.9	40.9	3.0	1.3	36	9-21
UA 4910	30.7	49.3	40.0	2.3	1.1	35	9-21
Croplan Genetics RC 4877RR	29.8	49.9	39.8	2.7	1.3	37	9-18
Progeny P 4906RR	33.8	45.1	39.5	3.0	1.8	37	9-20
Croplan Genetics RC 4998RR	37.0	41.7	39.4	1.6	1.5	40	9-30
Progeny P 4910	31.2	44.1	37.6	3.8	1.5	39	9-22
Progeny P 4911RY	31.5	40.0	35.7	2.7	1.3	39	9-26

continued

TABLE 6. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES IN NORTHERN ALABAMA, THREE-YEAR SUMMARY, 2009 - 2011

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2011	2-yr avg	3-yr avg				
	----- bu/acre -----						
Maturity Group IV							
Progeny P 4908RR	40.9	31.1	44.5	2.0	1.8	37	9-24
Progeny P 4906RR	39.5	29.7	44.0	2.0	2.0	36	9-23
UA 4910	40.0	30.7		1.6	1.4	32	9-21
Croplan Genetics R2C4541	54.6			2.9	1.1	37	9-17
Croplan Genetics RC4207	51.1			2.1	1.9	35	9-19
Croplan Genetics R2C4520	49.7			1.6	1.3	35	9-15
Progeny P 4811RY	47.5			2.6	1.6	38	9-19
Progeny P 4710RY	46.4			2.4	1.6	36	9-21
Croplan Genetics R2C4391	45.6			1.9	1.4	34	9-21
Croplan Genetics RC 4757	44.6			1.7	1.4	32	9-18
Progeny P 4928LL	41.8			2.6	1.7	35	9-21
Croplan Genetics R2C4801	41.1			2.1	1.9	40	9-18
Croplan Genetics RC 4877RR	39.8			2.7	1.3	37	9-18
Croplan Genetics RC 4998RR	39.4			1.6	1.6	40	10-1
Progeny P 4910	37.6			3.9	1.4	39	9-22
Progeny P 4911RY	35.7			2.7	1.3	39	9-26

continued

TABLE 6. CONTINUED

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date	
	2011	2-yr avg	3-yr avg					
	----- bu/acre -----			- inch -				
	Maturity Group V							
Ozark	51.7	38.2	47.1	2.4	1.3	34	10-1	
HALO 5:25	46.3	34.2	45.0	2.2	1.4	30	9-30	
SS LL 511N	41.9	31.5	44.1	2.2	1.3	31	10-1	
Croplan Genetics RC 5419RR	48.8	34.8	43.5	2.5	1.3	38	10-7	
Progeny P 5218RR	46.0	33.1	41.9	2.7	1.6	35	10-5	
Progeny P 5330RR	51.0	37.7		2.8	2.1	33	9-27	
Progeny P 5210RY	46.6	33.0		2.9	1.6	33	9-25	
USG 75T18	38.2	29.1		2.2	1.7	31	9-23	
Dyna-Gro 32A53	50.2			3.6	1.6	35	10-6	
Terral REV 51R53	49.7			3.3	1.3	33	9-30	
Dyna-Gro 37RY52	48.0			4.1	1.3	29	9-29	
Progeny P 511RY	47.5			3.0	1.3	33	10-2	
USG 75Z38	47.3			3.4	1.4	31	10-8	
SS 5111R2	47.2			3.4	1.3	42	10-4	
Croplan Genetics R2C5007	47.1			3.4	1.4	36	10-3	
SS 5112NR2	47.1			3.0	1.6	34	10-3	
Progeny P 5160LL	45.6			2.9	1.1	29	9-29	
SS 5312NR2	45.5			3.6	1.4	34	9-28	
Progeny P 5191	44.2			3.9	1.3	29	9-30	
Progeny P 5460LL	44.0			2.4	1.6	32	9-27	
SS EXP LL 501N	43.2			3.7	1.4	35	9-27	
Progeny P 5261LL	43.1			3.6	1.0	30	9-28	
Schillinger 5220.RC	42.2			3.4	1.3	36	9-27	
Asgrow AG 5232	41.2			2.7	1.4	34	9-27	
Progeny P 5321RY	39.5			3.7	1.6	38	9-30	
SS 5311NR2	38.4			3.0	1.4	40	10-4	
Croplan Genetics R2C5360	37.7			2.4	1.4	35	9-27	
Trial mean	44.5	33.0	44.3	2.8	1.5	35	9-27	
LSD(0.10)	6.6	3.2	3.5					
CV (%)	14.0	16.0	16.7					

TABLE 7. CONTINUED

Variety	Belle Mina	Cross ville	Regional Average				Plant height	Maturity date
			Yield	Lodging score	Shattering score			
			----- bu/acre -----				- inches -	
Maturity Group V								
Osage	39.5	60.3	49.9	2.9	1.0	34	9-26	
SS RT 5960N	42.4	55.2	48.8	3.0	1.4	36	10-11	
Asgrow AG 5732	40.2	57.1	48.7	2.6	1.3	36	10-2	
Croplan Genetics RC 5663RR	40.8	56.2	48.5	3.3	1.6	33	10-1	
Asgrow AG 5832	37.2	58.9	48.1	2.8	1.3	41	10-2	
Progeny P 5811RY	39.6	56.5	48.0	2.5	1.1	33	9-30	
SS RT 5471N	39.7	55.7	47.7	2.1	1.1	35	9-30	
SS LL 540N	41.2	53.3	47.3	2.5	1.1	37	9-28	
Asgrow AG 5632	31.5	60.5	46.0	3.0	1.1	37	9-27	
Asgrow AG 5831	41.3	50.4	45.8	2.0	1.1	35	10-1	
Terral REV 57R21	41.1	49.0	45.1	3.1	1.5	38	10-2	
SS LL 590N	37.2	52.7	45.0	2.3	1.1	34	9-27	
Progeny P 5218RR	36.6	53.1	44.8	3.8	1.3	33	10-7	
Croplan Genetics RC 5419RR	36.3	52.0	44.1	3.0	1.1	35	10-4	
SS 5510NR2	26.6	58.0	42.3	2.5	1.5	41	9-29	
Progeny P 5460LL	28.7	51.6	40.1	1.9	1.6	39	9-25	
Trial mean	41.5	60.0	50.8	2.7	1.3	36	10-4	
LSD(0.10)	5.6	7.4	4.7					
CV (%)	13.4	12.2	13.2					

TABLE 8. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2011

Variety	Belle Mina	Cross ville	Regional Average				Plant height	Maturity date
			Yield	Lodging score	Shattering score			
----- bu/acre -----			- inches -					
Maturity Group VI								
SS 6911NR2	55.5	33.4	44.7	1.4	1.5	31	10-27	
Progeny P 6710RY	55.0	31.6	43.3	1.3	1.4	28	10-28	
SS RT 6988N	48.0	37.1	42.6	2.4	1.3	29	10-29	
SS RT 6810Nr2	51.1	33.8	42.5	1.3	1.1	31	10-28	
NK Brand S61-Q2	46.5	34.1	40.6	1.9	1.3	30	10-20	
SS RT 6451N	38.7	29.0	33.9	2.5	1.3	29	10-20	
R04-342	45.6							
Maturity Group VII								
Progeny P 7310RY	56.3	49.3	52.8	2.3	1.1	29	11-1	
Asgrow AG 7231	54.2	45.9	50.1	3.1	1.5	28	11-1	
Asgrow AG 7532	51.3	45.3	48.3	2.5	1.1	30	11-2	
Trial mean	50.2	37.7	44.3	2.1	1.3	29	10-28	
LSD(0.10)	3.9	9.0	5.2					
CV (%)	7.4	23.3	16.2					

TABLE 9. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES IN NORTHERN ALABAMA, THREE-YEAR SUMMARY, 2009 - 2011

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2011	2-yr avg	3-yr avg				
	----- <i>bu/acre</i> -----						
Maturity Group VI							
SS RT 6988N	42.6	31.0	37.5	1.8	1.3	36	10-20
SS RT 6451N	33.9	25.4	35.7	1.8	1.5	35	10-19
Progeny P 6710RY	43.3	31.4		1.2	1.5	31	10-26
SS RT 6810Nr2	42.5	31.3		1.4	1.4	32	10-27
SS 6911NR2	44.7			1.4	1.6	29	10-27
NK Brand S61-Q2	40.6			1.9	1.3	29	10-22
R04-342				3.3	1.0	29	10-7
Maturity Group VII							
Progeny P 7310RY	52.8	37.2		1.7	1.3	31	10-28
Asgrow AG 7231	50.1			3.0	1.6	27	11-2
Asgrow AG 7532	48.3			2.4	1.1	29	11-3
Trial mean	44.3	31.3	36.6	2.0	1.4	31	10-24
LSD(0.10)	5.4	3.5	2.9				
CV (%)	16.2	21.1	16.8				

TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES AT SHORTER, ALABAMA, 2011

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group IV					
UA 4910	23.1			33	10-3
Progeny P 4908RR	22.3			40	9-29
Progeny P 4710RY	21.9			34	9-29
Progeny P 4811RY	21.6			41	9-25
Progeny P 4910	21.5			40	10-1
Progeny P 4906RR	20.0			37	9-29
Progeny P 4911RY	19.1			43	9-25
Progeny P 4928LL	19.0			38	9-25

continued

TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES AT SHORTER, ALABAMA, THREE-YEAR SUMMARY, 2009-2011

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2011	2-yr avg	3-yr avg				
----- bu/acre -----			- inch -				
Maturity Group IV							
Progeny P 4908RR	22.3	27.9	36.2	0.0	0.0	34.3	9-19
Progeny P 4906RR	20.0	25.3	32.6	0.0	0.0	34.0	9-19
UA 4910	23.1	24.9		0.0	0.0	31.4	9-15
Progeny P 4710RY	21.9					34.0	9-29
Progeny P 4811RY	21.6					40.8	9-25
Progeny P 4910	21.5					40.3	10-1
Progeny P 4911RY	19.1					42.5	9-25
Progeny P 4928LL	19.0					37.5	9-25

continued

TABLE 12. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES OT SHORTER, ALABAMA, 2011

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group VI					
Asgrow AG 6732	50.7			36	10-25
Progeny P 6710RY	49.6			32	10-25
Croplan Genetics R2C 6810	49.3			34	10-25
Asgrow AG 6931	47.2			36	10-26
Asgrow AG 6132	43.8			36	10-25
R04-342	37.3			33	10-7
Asgrow AG 6031	28.3			33	10-6
Maturity Group VII					
Woodruff	53.7			33	10-28
Progeny P 7310RY	51.7			31	10-28
Asgrow AG 7532	50.4			37	10-26
Asgrow AG 7231	48.2			33	10-28
AGS 758 RR	47.0			37	10-25
Maturity Group VIII					
Au 02-2814	54.9			35	10-25
Pritchard RR	48.2			39	10-29
Trial mean	47.2			34	10-23
LSD(0.10)	3.5				
CV (%)	7.0				

TABLE 13. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES AT SHORTER, ALABAMA, THREE-YEAR SUMMARY, 2009-2011

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2011	2-yr avg	3-yr avg				
	----- bu/acre -----					- inch -	
Maturity Group VI							
Progeny P 6710RY	49.6	30.5				32.9	9-24
Asgrow AG 6732	50.7					36.0	10-25
Croplan Genetics R2C 6810	49.3					34.3	10-25
Asgrow AG 6931	47.2					36.3	10-26
Asgrow AG 6132	43.8					36.3	10-25
R04-342	37.3					32.8	10-7
Asgrow AG 6031	28.3					32.5	10-6
Woodruff	53.7					33.3	10-28
Maturity Group VII							
Progeny P 7310RY	51.7					30.5	10-28
Asgrow AG 7532	50.4					36.5	10-26
Asgrow AG 7231	48.2					33.0	10-28
AGS 758 RR	47.0					36.5	10-25
Maturity Group VII							
Au 02-2814	54.9					34.5	10-25
Pritchard RR	48.2					38.5	10-29
Trial mean	47.2	30.5					
LSD(0.10)	1.6						
CV (%)	4.5	2.3					

TABLE 15. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 2009 - 2011

Variety	2011	2-yr avg	3-yr avg	Lodging score	Shattering score	Plant height	Maturity date
	----- bu/acre -----			- inch -			
Maturity Group IV							
Progeny P 4906RR	38.8	32.1		1.9	3.0	34.0	9-16
Progeny P 4908RR	36.2	27.3		2.0	3.9	33.9	9-14
Progeny P 4710RY	37.9			1.0	1.7	34.7	9-14
Progeny P 4811RY	33.9			2.3	3.7	39.7	9-14
Progeny P 4910	32.6			3.3	3.7	38.0	9-16
Progeny P 4911RY	32.2			3.7	1.7	44.0	9-16
Progeny P 4928LL	28.9			1.0	5.0	35.7	9-14
Maturity Group V							
HALO 5:65	36.1	27.7	30.8	0.6	2.1	29.3	9-23
HALO 5:25	39.0	25.3	29.7	0.6	2.4	21.5	9-20
Progeny P 5610RY	43.2	37.2		1.3	1.0	30.0	9-19
Terral REV 55R21	44.0	35.1		1.0	1.3	28.0	9-25
Terral REV 56R21	38.9	34.7		1.3	1.3	29.9	9-15
Progeny P 5622RR	43.0	33.9		1.3	1.0	29.4	9-24
Progeny P 5210RY	39.6	32.8		1.0	1.3	26.0	9-16
Progeny P 5330RR	39.2	31.7		1.1	2.4	29.9	9-22
Terral REV 57R21	37.8	31.5		2.7	1.3	34.6	9-23
Asgrow AG 5831	36.8	31.0		1.0	1.0	23.0	9-18
Syngenta NK S 56-G6	40.4	30.4		1.0	1.0	22.0	9-25
Progeny P 5218RR	26.2	26.4		1.4	2.1	25.1	9-29
AGS 597RR	46.3			1.0	1.0	30.3	9-23
Progeny P 5770	42.6			1.7	1.0	32.7	9-24
Progeny P 5160LL	42.2			1.0	1.7	23.3	9-17
Progeny P 5191	42.1			1.3	2.3	27.3	9-14
Terral REV 56R63	41.9			1.7	1.0	36.3	9-21
Progeny P 5711RY	41.5			1.0	1.0	32.3	9-20
Syngenta NK S 54-V4	40.5			1.0	2.3	25.3	9-18
Progeny P 5655RY	40.3			1.3	2.3	40.7	9-19
Progeny P 5261LL	40.1			1.0	1.0	30.3	9-18
Terral REV 51R53	40.0			2.7	1.7	37.3	9-18
Progeny P 5960LL	39.4			1.3	1.0	32.3	9-19
Progeny P 5811RY	39.2			1.0	1.7	33.7	9-18
Syngenta NK S 57-K3	39.0			1.0	1.0	28.7	9-23
Croplan Genetics R2C5820	38.8			1.0	2.3	29.3	9-19
Progeny P 5650RR	35.5			2.0	1.0	37.7	9-28
Progeny P 511RY	35.0			1.0	3.0	28.0	9-14
Progeny P 5321RY	30.7			3.3	4.3	43.7	9-17
Asgrow AG 5832	28.1			3.7	4.3	41.3	9-23
Progeny P 5460LL	26.9			1.0	5.0	33.3	9-15
Trial mean	37.8	31.2	30.3	1.5	2.1	31.9	9-19
LSD(0.10)	3.8	3.5	1.3				
CV (%)	9.5	15.1	6.7				

TABLE 16. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 2011

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date	Iron Chlorosis [†]
	- bu/acre -			- inches -		
Maturity Group IV						
Progeny P 4811RY	11.5	1.0	1.0	17	10-11	6.0
Progeny P 4910	9.5	1.0	3.7	16	10-6	6.8
Progeny P 4710RY	7.2	1.0	1.0	17	10-10	8.0
Progeny P 4928LL	6.5	1.0	1.0	13	10-9	7.3
Progeny P 4906RR	4.6	1.0	1.0	11	10-17	7.8
Progeny P 4908RR	no yield					8.7
Progeny P 4911RY	no yield					9.3
Maturity Group V						
Progeny P 5960LL	16.6	1.0	2.3	20	9-28	1.0
Progeny P 5655RY	16.5	1.0	5.0	20	9-26	2.5
Progeny P 5261LL	16.5	1.0	1.7	15	9-28	3.2
Progeny P 5770	16.2	1.0	1.0	15	10-8	6.3
HALO 5:65	14.5	1.0	3.7	16	9-28	1.5
Progeny P 5610RY	14.0	1.0	3.0	15	9-27	4.7
Progeny P 5650RR	13.3	1.0	1.0	14	10-5	5.0
Syngenta NK S 56-G6	13.0	1.0	1.7	10	10-7	2.2
Terral REV 51R53	13.0	1.0	1.7	18	10-12	7.0
Progeny P 5711RY	12.9	1.0	2.3	15	9-24	3.8
Syngenta NK S 57-K3	12.7	1.0	1.0	14	10-12	5.3
Progeny P 5218RR	11.8	1.0	1.7	12	10-9	6.3
Progeny P 5210RY	11.4	1.0	1.7	12	9-27	4.3
Terral REV 56R21	10.7	1.0	1.0	15	10-7	6.8
Terral REV 56R63	10.4	1.0	1.7	15	10-9	5.5
Progeny P 5622RR	10.1	1.0	3.0	15	10-6	6.7
Progeny P 5811RY	9.5	1.0	2.0	15	10-8	6.5
Syngenta NK S 54-V4	9.4	1.0	4.3	14	9-24	3.5
Progeny P 5460LL	8.7	1.0	1.0	18	10-4	6.0
Asgrow AG 5832	8.5	1.0	1.0	20	10-13	6.5
HALO 5:25	8.5	1.0	2.3	11	9-22	3.2
Progeny P 5160LL	8.1	1.0	2.3	11	9-25	3.8
Progeny P 5191	7.7	1.0	2.0	11	9-26	7.2
Progeny P 5321RY	7.5	1.0	1.7	16	10-16	7.2
Asgrow AG 5831	7.1	1.0	1.7	13	9-22	3.8
Progeny P 511RY	6.2	1.0	3.7	11	9-19	4.2
Croplan Genetics R2C5820	4.3	1.0	3.0	11	9-29	7.8
AGS 597RR	no yield					9.2
Terral REV 55R21	no yield					8.0
Terral REV 57R21	no yield					8.3
Trial mean	10.6	1.0	2.1	15	10-3	
LSD(0.10)	4.0					
CV (%)	35.9					

[†] Iron chlorosis ratings made on July 20, 2011. 1 = no chlorosis; 10 = plants losing leaves due to necrotic spots on leaves.

TABLE 17. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 2011

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group VI					
Asgrow AG 6931	46.5	2.0	1.0	37	10-14
Dyna-Gro 36RY68	45.7	1.0	1.0	35	10-14
Croplan Genetics R2C 6810	44.4	1.0	1.0	32	10-13
Progeny P 6710RY	44.3	1.0	1.0	36	10-14
NK Brand S68-D4	43.6	1.0	1.0	36	10-10
Asgrow AG 6732	39.9	1.3	1.7	32	10-12
Asgrow AG 6132	38.5	1.3	1.7	36	10-10
Dyna-Gro V61N9	37.2	1.0	1.7	30	9-29
Asgrow AG 6031	36.8	1.0	1.7	34	9-21
Maturity Group VII					
Dyna-Gro 35K73	49.2	1.7	1.0	38	10-10
Progeny P 7310RY	46.3	1.0	1.0	31	10-13
Asgrow AG 7231	45.8	1.0	1.0	33	10-15
Asgrow AG 7532	43.1	1.3	1.0	33	10-18
Woodruff	43.0	1.7	1.0	37	10-14
Dyna-Gro V76N9RR	38.8	1.3	1.7	38	10-22
NK Brand S78-G6	37.6	2.3	1.0	38	10-18
NK Brand S79-B9	35.9	1.7	1.0	44	10-20
AGS 758 RR	34.4	1.0	1.0	33	10-19
Maturity Group VIII					
Au 02-2814	47.8	1.0	1.7	38	10-17
Pritchard RR	35.4	2.0	1.0	44	10-26
Trial mean	41.7	1.3	1.2	36	10-13
LSD(0.10)	4.1				
CV (%)	9.2				

TABLE 19. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 2011

Variety	Yield - bu/acre -	Lodging score	Shattering score	Plant height - inches -	Maturity date	Iron Chlorosis [†]
Maturity Group VI						
Asgrow AG 6732	21.7	1.0	4.3	14	10-21	1.5
NK Brand S68-D4	21.2	1.0	1.0	17	10-17	1.2
Dyna-Gro V61N9	20.7	1.0	3.0	16	10-24	1.8
Asgrow AG 6931	19.0	1.0	1.0	16	10-22	4.2
Dyna-Gro 36RY68	16.4	1.0	1.7	14	10-19	2.5
Progeny P 6710RY	13.8	1.0	1.0	12	10-20	2.8
Asgrow AG 6132	13.8	1.0	3.0	16	10-24	3.5
Croplan Genetics R2C 6810	13.4	1.0	1.7	12	10-16	3.0
Asgrow AG 6031	9.2	1.0	4.3	14	9-26	2.2
Maturity Group VII						
NK Brand S78-G6	25.4	1.0	1.0	19	10-23	1.2
Asgrow AG 7231	24.4	1.0	1.0	17	10-24	2.7
Dyna-Gro 35K73	24.4	1.0	1.0	22	10-28	2.0
NK Brand S79-B9	24.4	1.0	1.0	25	10-30	2.8
AGS 758 RR	22.8	1.0	1.0	15	10-22	2.2
Progeny P 7310RY	22.6	1.0	1.0	14	10-23	1.7
Dyna-Gro V76N9RR	22.4	1.0	3.0	16	10-25	3.2
Woodruff	22.0	1.0	1.7	15	10-27	3.5
Asgrow AG 7532	20.5	1.0	1.7	15	10-22	2.2
Maturity Group VIII						
Pritchard RR	34.8	1.0	1.0	24	10-26	4.2
Au 02-2814	22.6	1.0	2.3	19	10-27	5.3
Trial mean	20.8	1.0	1.8	17	10-22	
LSD(0.10)	6.7					
CV (%)	30.1					

[†] Iron chlorosis ratings made on July 20, 2011. 1 = no chlorosis; 10 = plants losing leaves due to necrotic spots on leaves.

TABLE 22. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 2011

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group VI					
Asgrow AG 6732	41.9	2.0	1.8	25	10-26
Asgrow AG 6931	41.7	2.0	1.0	32	10-27
NK Brand S68-D4	41.2	2.3	1.0	27	10-27
Asgrow AG 6132	31.8	2.0	2.0	28	10-27
Croplan Genetics R2C 6810	28.6	2.0	1.0	22	10-27
Progeny P 6710RY	25.9	2.0	1.0	23	10-27
Dyna-Gro 36RY68	24.7	2.0	1.0	25	10-27
Dyna-Gro V61N9	21.7	2.0	1.8	20	10-27
Asgrow AG 6031	17.4	1.8	1.8	23	10-26
Maturity Group VII					
Woodruff	55.2	2.0	1.0	28	10-31
AGS 758 RR	48.4	2.0	1.0	25	10-27
NK Brand S78-G6	42.5	2.3	1.0	29	10-27
NK Brand S79-B9	40.7	3.0	1.0	29	10-28
Asgrow AG 7532	39.5	2.0	1.0	27	10-27
Dyna-Gro 35K73	35.1	2.0	1.0	27	10-27
Dyna-Gro V76N9RR	29.8	2.0	1.0	28	10-27
Progeny P 7310RY	22.7	2.0	1.3	21	10-28
Asgrow AG 7231	18.9	2.5	1.0	22	10-27
Maturity Group VII					
Pritchard RR	49.5	2.8	1.0	36	11-2
Au 02-2814	29.4	2.5	1.0	24	10-28
Trial mean	34.3	2.2	1.2	26	10-27
LSD(0.10)	14.8				
CV (%)	40.9				

TABLE 24. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 2011

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group IV					
Progeny P 4911RY	28.9	1.0	28.9	42	9-10
Progeny P 4811RY	27.6	1.0	27.6	41	9-10
Progeny P 4910	24.4	1.0	24.4	36	9-14
Progeny P 4906RR	22.8	1.0	22.8	34	9-12
UA 4910	19.6	1.0	19.6	30	9-11
Progeny P 4908RR	18.7	1.0	18.7	34	9-11
Progeny P 4928LL	17.2	1.0	17.2	30	9-13
Progeny P 4710RY	15.9	1.0	15.9	31	9-11

continued

TABLE 25. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, THREE-YEAR SUMMARY, 2009-2011

Variety	Yield		Lodging score	Shattering score	Plant height	Maturity date
	2011	2-yr avg 3-yr avg				
		----- bu/acre -----				
Maturity Group IV						
Progeny P 4906RR	22.8	32.3	1.0	3.3	34.2	9-4
UA 4910	19.6	29.9	1.0	1.7	30.0	9-3
Progeny P 4908RR	18.7	24.9	1.2	16.7	33.0	9-4
Progeny P 4911RY	28.9		1.0		42.3	9-10
Progeny P 4811RY	27.6		1.0		41.0	9-10
Progeny P 4910	24.4		1.0		36.0	9-14
Progeny P 4928LL	17.2		1.0		30.3	9-13
Progeny P 4710RY	15.9		1.0		31.3	9-11

continued

TABLE 26. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES AT BREWTON, ALABAMA, 2011

Variety	Yield	Lodging score	Shattering score	Plant height	Maturity date
	- bu/acre -			- inches -	
Maturity Group VI					
Asgrow AG 6931	42.2	1.0	42.2	35	10-14
Croplan Genetics R2C 6810	37.2	1.0	37.2	31	10-23
Progeny P 6710RY	35.8	1.0	35.8	30	10-21
Asgrow AG 6732	35.1	1.0	35.1	26	10-18
NK Brand S68-D4	34.7	1.0	34.7	32	10-8
Asgrow AG 6132	33.6	1.0	33.6	29	10-13
Asgrow AG 6031	28.6	1.0	28.6	24	9-21
R04-342	25.1	1.0	25.1	18	9-17
Maturity Group VII					
Woodruff	44.4	1.0	44.4	36	10-24
NK Brand S79-B9	40.6	1.0	40.6	48	10-22
Progeny P 7310RY	40.0	1.0	40.0	28	10-16
NK Brand S78-G6	39.1	1.0	39.1	39	10-18
AGS 758 RR	39.1	1.0	39.1	32	10-17
Asgrow AG 7532	36.1	1.0	36.1	30	10-18
Asgrow AG 7231	34.8	1.0	34.8	30	10-20
Maturity Group VIII					
Pritchard RR	50.2	1.0	50.2	40	10-22
Au 02-2814	48.1	1.0	48.1	38	10-22
Trial mean	37.9	1.0	37.9	32	10-15
LSD(0.10)	6.7				
CV (%)	16.5				

TABLE 27. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, THREE-YEAR SUMMARY, 2009-2011

Variety	Yield			Lodging score	Shattering score	Plant height	Maturity date
	2011	2-yr avg	3-yr avg				
----- bu/acre -----			- inch -				
Maturity Group VI							
Asgrow AG 6931	42.2	44.5		1.0	0.0	32.2	9-21
Progeny P 6710RY	35.8	38.1		1.0	0.0	29.5	9-23
Asgrow AG 6031	28.6	31.8		1.0	10.0	25.7	9-10
Croplan Genetics R2C 6810	37.2			1.0		31.0	10-23
Asgrow AG 6732	35.1			1.0		25.7	10-18
NK Brand S68-D4	34.7			1.0		32.3	10-8
Asgrow AG 6132	33.6			1.0		28.7	10-13
R04-342	25.1			1.0		18.3	9-17
Maturity Group VII							
Woodruff	44.4	48.0	49.5	1.0	0.0	31.2	10-3
AGS 758 RR	39.1	41.1	44.6	1.0	0.0	29.1	9-30
Progeny P 7310RY	40.0	47.4		1.0	0.0	27.7	9-24
Asgrow AG 7231	34.8	39.2		1.0	0.0	29.2	9-20
NK Brand S79-B9	40.6			1.0		47.7	10-22
NK Brand S78-G6	39.1			1.0		38.7	10-18
Asgrow AG 7532	36.1			1.0		29.5	10-18
Maturity Group VIII							
Au 02-2814	48.1	45.4	49.1	1.0	0.0	34.2	10-6
Pritchard RR	50.2	46.8	47.6	1.1	0.0	37.6	10-5
Trial mean	37.9	42.5	47.7				
LSD(0.10)	4.7	3.6	3.1				
CV (%)	16.5	15.7	14.2				

TABLE 28. CULTURAL PRACTICES FOR SOYBEAN VARIETY TESTS IN 2011

Location	Type of test	Date planted	Row width	Herbicide used	Fertilizer applied
- inches -					
Belle Mina	Group IV	Not planted	30	.	none recommended
	Group IV-V	June 2	30	Valor	none recommended
	Group Mid-Late V	June 2	30	Treflan, Valor	none recommended
	Group VI-VII	June 3	30	Treflan, Valor	none recommended
Crossville	Group IV	May 5	30	Prowl, FirstRate	none recommended
	Group IV-V	May 20	30	Prowl, Valor	none recommended
	Group Mid-Late V	May 23	30	Prowl, Valor	none recommended
	Group VI-VII	June 30	30	Prowl, Valor	none recommended
Tallassee	Group IV	April 29	30	Roundup	none recommended
Shorter	Group IV-V	June 9	36	Dual, Prowl	none recommended
	Group VI-VII	June 9	36	Dual, Prowl	none recommended
Marion Junction	Group IV-V (Sumter)	May 19	36	Basagram, Poast	none recommended
	Group VI-VII (Sumter)	May 19	36	Basagram, Poast	none recommended
	Group IV-V (Vaiden)	May 19	36	Basagram, Poast	none recommended
	Group VI-VII (Vaiden)	May 19	36	Basagram, Poast	none recommended
Brewton	Group IV-V	May 24	36	Dual	none recommended
	Group VI-VII	May 24	36	Dual	none recommended
Fairhope	Group IV-V	June 14	38	Karate, Storm	none recommended

TABLE 29. SOIL TYPES FOR SOYBEAN TESTS, 2011

Location	Soil Type
Belle Mina	Emory silt loam
Crossville	Wynnsville 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 31. ENTRIES AND SOURCES OF SEED FOR SOYBEAN TESTS, 2011

Source	Entry
AG South Genetics, LLC Albany, Georgia	AGS brand varieties
Alabama Crop Imp. Assoc. Auburn, Alabama	Hinson, Stonewall
Auburn University Auburn, Alabama	Au 02-3223, Au 02-2814, Au 02-3104
Croplan Genetics/Land O' Lakes Elkmont, Alabama	Croplan Genetics
Eagle Seed Company Wiener, Arkansas	ES brand varieties
Monsanto St. Louis, Missouri	Asgrow brand varieties, Deltapine brand varieties
Progeny Ag Products Wynne, Arkansas	Progeny brand varieties
Schillinger Seed Inc. West Des Moines, Iowa	Schillinger brand varieties
Southern States Coop. Richmond, Virginia	SS brand varieties
Syngenta/NK Brand Seed Laurinburg, North Carolina	NK S brand varieties
UniSouth Genetics, Inc. Nashville, Tennessee	USG brand varieties
United Agri-Products Madison, Alabama	Dyna-Gro brand varieties
University of Arkansas Fayetteville, Arkansas	UA 4805, R03-224, Osage, Ozark
University of Georgia Athens, Georgia	Prichard RR