

Performance of Soybean Cultivars In Alabama, 2014



Charles Potter 1925

Source: Ala. Coop. Ext. Service Photo Collection

Dept. Series No. CSES2014:Soybean

Dr. John Beasley, Dept. Head

Crop, Soil and Environmental Sciences

Dr. William Batchelor, Director Ala. Agric. Exp. Station

Auburn University, Auburn AL

December 2014



Performance of Soybean Cultivars in Alabama, 2014

K. M. Glass¹, C. D. Monks², D. Delaney³, and J. Brasher⁴

¹Agric. Program Assoc.; ²Prof. & Dir. Res. Outlying Units; ³Extension Soybean Agronomist; and ⁴Field Data Manager
Dept. of Crop, Soil & Environmental Sciences; Alabama Experiment Station; and ACES Auburn Univ., AL 36849

“The mission of the Alabama Variety Testing Program is to provide research-based, unbiased results on the performance of various crop hybrids, cultivars, and varieties to the agricultural community in our state. We are intent on conducting these trials in a manner that will result in maximum biological yield through methods common to the top-producing farms in Alabama. We are committed to providing this information in a rapid, timely manner for its use during the decision-making process. The success of the program rests upon our ability to help Alabama producers provide a safe, dependable source of food and fiber for all families as well as economic sustainability for theirs.”

Methods

Cultivars were arranged in a randomized complete block experimental design with 4 replications. Plot size was 4 rows, 30- to 38-inches wide, and 20 to 25 feet long. Trials were managed according to the location and local practices (Tables 19, 20). All tests were fertilized according to soil test recommendations. Plots were harvested utilizing a small plot combine from the center 2 rows of each plot. Plot yields were adjusted to 13 percent moisture and converted to bushels (60 pounds/bushel) per acre.

Region	Ala. Exp. Station location and soil texture
North	Sand Mountain Research & Ext. Center Wynntown fine sandy loam
	Tennessee Valley Research & Ext. Center Decatur silt loam
Central	Black Belt Research & Ext. Center Vaiden clay
	** Plant Breeding Unit, E.V. Smith Res. Ctr. Cahaba fine sandy loam
*	Prattville Agricultural Research Unit Lucedale fine sandy loam
Southern	Brewton Agricultural Research Unit Benndale fine sandy loam
	Gulf Coast Research & Ext. Center Malbis fine sandy loam
*	Wiregrass Research & Ext. Center Dothan fine sandy loam

In 2014, soybean trials were not treated with foliar fungicides; however *fungicide treatment for disease control* will be included in the 2015 trials.

*No soybean trials at these locations;
**Not reported due to low yield caused by inclement weather (PBU).

Tables

**Abbreviations: REC, Research and Extension Center; ARU, Agricultural Research Unit*

2014 Soybean Cultivar Yield Performance

Northern Region

- Table 1. Performance of MG IV soybean cultivars, Tenn. Valley REC, Belle Mina
- Table 2. Performance of MG IV & V soybean cultivars, Tenn. Valley REC, Belle Mina
- Table 3. Performance of MG V soybean cultivars, Tenn. Valley REC, Belle Mina
- Table 4. Performance of MG IV soybean cultivars, Sand Mtn. REC, Crossville
- Table 5. Performance of MG IV & V soybean cultivars, Sand Mtn. REC, Crossville
- Table 6. Performance of MG V soybean cultivars, Sand Mtn. REC, Crossville

Central Region

- Table 7. Performance of MG IV soybean cultivars, EVS Smith Field Crops Unit, Shorter
- Table 8. Performance of MG V, VI, & VII soybean cultivars, EV Smith Field Crops Unit, Shorter
- Table 9. Performance of MG IV soybean cultivars, EV Smith Plant Breeding Unit, Tallassee
- *Table 10. Response of MG IV & V soybeans to iron chlorosis (Sumter soil), Black Belt REC*
- *Table 11. Response of MG VI & VII soybean to iron chlorosis (Sumter soil), Black Belt REC*
- *Note: Soybean trials on the Sumter soil were not harvested due to severe iron chlorosis.*
- Table 12. Perf. of MG IV & V soybean cultivars (Vaiden soil), Black Belt REC, Marion Junction
- Table 14. Perf. of MG VI & VII soybean cultivars (Vaiden soil), Black Belt REC, Marion Junction
- Table 15. Performance of MG IV & V soybean cultivars, Brewton Agric. Res. Unit, Brewton
- Table 16. Performance of MG VI & VII soybean cultivars, Brewton Agric. Res. Unit, Brewton

Southern Region

- Table 17. Performance of MG IV & V soybean cultivars, Gulf Coast REC, Fairhope
- Table 18. Performance of MG VI & VII soybean cultivars, Gulf Coast REC, Fairhope

Management, rainfall, and entry sources

- Table 19. Cultural practices for soybean cultivar tests in 2014
- Table 20. Rainfall at trial locations during 2014 growing season
- Table 21. Soybean entries and sources for 2014

Table 1. Performance of Soybean Cultivars in North Alabama, 2014.

Tennessee Valley REC - Belle Mina, AL

Maturity Group IV

Cultivar		Yield	
Group IV		(bu/acre)	
Asgrow AG 4135		59	
USG 74B83R		57	
MorSoy 49X54		57	
Mycogen 5N451R2		55	
Dyna-Gro S49RY25		55	
USG 74F53R		54	
Mycogen 5N479R2		53	
MorSoy 44X82		53	
Mycogen 5N452R2		53	
Mycogen 5N478R2		53	
Terral REV 47R53		53	
Mycogen MYCX54490NR2		52	
USG 74A92R		52	
Terral REV 49A55		49	
Terral REV 47R34		49	
USG74B94RS		49	
MorSoy 48X02		49	
Terral REV 48R22		49	
Terral REV 49R94		48	
Terral REV 48R44		48	
MorSoy 46X04		48	
Terral REV 46R64		47	
MorSoy 47X12		47	
Ellis		46	
Asgrow AG 4835		46	
MorSoy 48X34		46	
Terral REV 49A75		44	
Dyna-Gro S48RS53		44	
HBK RY4959		42	
HBK LL 4950		38	
HBK LL 4850		32	
HBK LL 4953		31	
Trial mean		49	
L.S.D. (0.10)		4	
C.V. (%)		10	
Pr>F		0.0001	

*L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.

Table 2. Performance of Soybean Cultivars in North Alabama, 2014.

Tennessee Valley REC - Belle Mina, AL			
Regular - Maturity Groups IV & V			
Cultivar		Yield	
Group IV		(bu/acre)	
Ellis		58	
Mycogen 5N451R2		52	
MorSoy 49X54		50	
MorSoy 48X02		49	
MorSoy 47X12		49	
Mycogen MYCX54490NR2		49	
HBK LL 4850		48	
Mycogen 5N478R2		48	
MorSoy 46X04		47	
Mycogen 5N452R2		47	
Mycogen 5N479R2		46	
Terral REV 49A14		46	
HBK LL 4953		45	
HBK LL 4950		44	
MorSoy 48X34		40	
Group V			
Ozark		58	
MorSoy Extra 51X31		57	
Mycogen X54522NR2		54	
R05-374		52	
UA 5213 C		52	
MorSoy Extra 54X41		51	
R04-1268 RR		51	
USG 75Q42R		51	
Bayer HBK RY5221		50	
USG 75J23R		49	
Terral REV 54R84		49	
Syngenta NK S 51-C5		49	
MorSoy Extra 53X82		49	
Terral REV 52R74		46	
Syngenta NK S 52-Y2		46	
Terral REV 52A94		46	
Asgrow AG 5335		45	
Terral REV 53R23		44	
Terral REV 51R53		44	
Bayer HBK RY5421		43	
Dyna-Gro S54RY43		42	
Mycogen 5N540R2		39	
Trial mean		48	
L.S.D. (0.10)		2.0	
C.V. (%)		5.3	
Pr>F		0.0001	

**L.S.D., Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.*

Table 3. Performance of Soybean Cultivars in North Alabama, 2014.

Tennessee Valley REC - Belle Mina, AL
Regular - Mid- to Late Maturity Group V

Cultivar	Yield
Mid- to Late Group V	(bu/acre)
Mycogen 5N550R2	51
UA 5612 C	50
Syngenta NK S 59-V9	50
Terral REV 57R21	50
Osage	49
Terral REV 56R63	46
Asgrow AG 5535	45
R04-1250 RR	45
Dyna-Gro S56RY84	44
Syngenta NK S 55-Q3	44
Terral REV 55R53	44
MorSoy Extra 56X02	42
Terral REV 56A54	41
Asgrow AG 5935	36
Trial mean	46
L.S.D. (0.10)	3
C.V. (%)	8.5
Pr>F	0.0031

**L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.*

Table 4. Performance of Soybean Cultivars in Northeast Alabama, 2014.

Sand Mountain REC - Crossville, AL			
Maturity Group IV			
Cultivar		Yield	
Group IV		(bu/acre)	
Dyna-Gro S48RS53		60	
Mycogen 5N479R2		60	
Dyna-Gro S49RY25		60	
Ellis		60	
MorSoy 44X82		59	
MorSoy 47X12		59	
Mycogen 5N478R2		59	
Mycogen MYCX54490NR2		58	
Mycogen 5N451R2		58	
Terral REV 47R53		57	
MorSoy 49X54		57	
MorSoy 48X02		57	
Terral REV 49R94		57	
Asgrow AG 4835		57	
MorSoy 46X04		56	
USG 74A92R		56	
Terral REV 49A55		56	
HBK RY4959		56	
Terral REV 49A75		54	
USG 74B83R		54	
MorSoy 48X34		54	
Terral REV 48R44		54	
HBK LL 4953		54	
Terral REV 48R22		53	
USG 74F53R		53	
Terral REV 47R34		53	
HBK LL 4850		53	
Mycogen 5N452R2		51	
Terral REV 46R64		50	
HBK LL 4950		50	
Asgrow AG 4135		50	
USG74B94RS		47	
Trial mean		55	
L.S.D. (0.10)		NS	
C.V. (%)		11	
Pr>F		0.2513	

*L.S.D., Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.

Table 5. Performance of Soybean Cultivars in Northeast Alabama, 2014.

Sand Mountain REC - Crossville, AL

Regular - Maturity Groups IV & V

Cultivar	Yield
Group IV	(bu/acre)
Mycogen 5N479R2	42
MorSoy 47X12	41
Mycogen 5N478R2	40
MorSoy 48X02	39
Mycogen 5N452R2	39
Mycogen 5N451R2	39
MorSoy 49X54	38
Terral REV 49A14	37
Ellis	37
MorSoy 46X04	36
HBK LL 4950	35
HBK LL 4850	34
Mycogen MYCX54490NR2	33
HBK LL 4953	33
MorSoy 48X34	31
Group V	
Syngenta NK S 51-C5	48
Mycogen 5N540R2	47
MorSoy Extra 53X82	46
Mycogen X54522NR2	45
MorSoy Extra 54X41	44
Syngenta NK S 52-Y2	44
R05-374	44
Dyna-Gro S54RY43	44
R04-1268 RR	43
Terral REV 53R23	43
Ozark	42
Asgrow AG 5335	42
Terral REV 54R84	41
UA 5213 C	41
USG 75Q42R	40
MorSoy Extra 51X31	40
Terral REV 52A94	39
Bayer HBK RY5421	39
Terral REV 51R53	39
Terral REV 52R74	39
USG 75J23R	38
Bayer HBK RY5221	34
Trial mean	40
L.S.D. (0.10)	4
C.V. (%)	14.5
Pr>F	0.002

*L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.

Table 6. Performance of Soybean Cultivars in Northeast Alabama, 2014.**Sand Mountain REC - Crossville, AL****Regular - Mid- to Late Group V**

Cultivar	Yield
Mid- to Late Group V	(bu/acre)
Dyna-Gro S56RY84	46
Syngenta NK S 55-Q3	44
Asgrow AG 5535	44
Asgrow AG 5935	43
Mycogen 5N550R2	43
Terral REV 55R53	42
R04-1250 RR	42
Osage	42
Syngenta NK S 59-V9	41
UA 5612 C	41
Terral REV 57R21	40
MorSoy Extra 56X02	39
Terral REV 56A54	37
Terral REV 56R63	36
Trial mean	41
L.S.D. (0.10)	NS
C.V. (%)	11.0
Pr>F	0.3131

**L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.*

Table 7. Performance of Soybean Cultivars in Central Alabama, 2014.**E.V. Smith Research Center Field Crops Unit - Shorter, AL****Regular - Maturity Groups IV & V**

Cultivar	Yield
Group IV	(bu/acre)
Mycogen 5N451R2	37
Mycogen 5N479R2	35
HBK LL 4953	35
Progeny P 4788RY	35
HBK LL 4850	34
Progeny P 4620LLS	34
Mycogen 5N452R2	34
Progeny P 4930LL	33
Ellis	33
Progeny P 4850RYS	32
Progeny P 4900RY	32
Mycogen MYCX54490NR2	32
Mycogen 5N478R2	31
HBK LL 4950	31
Progeny P 4819LL	31
Progeny P 4747RY	30
Progeny P 4613RYS	30
Progeny P 4928LL	29
Group V	
Terral REV 53R23	37
Mycogen X54522NR2	36
Ozark	35
Syngenta NK S 52-Y2	35
Progeny P 5220LLS	34
Asgrow AG 5335	34
Mycogen 5N540R2	33
Progeny P 5333RY	33
Terral REV 52A94	32
R05-374	32
R04-1268 RR	31
Terral REV 54R84	31
Terral REV 51R53	31
USG 75Q42R	30
USG 75J23R	29
Bayer HBK RY5221	29
Progeny P 5160LL	29
Syngenta NK S 51-C5	28
UA 5213 C	28
Progeny P 5460LL	28
Terral REV 52R74	28
Progeny P 5213RY	28
Bayer HBK RY5421	27
Trial mean	32
L.S.D. (0.10)	NS
C.V. (%)	15.5
Pr>F	0.2718

**L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.*

Table 8. Performance of Soybean Cultivars in Central Alabama, 2014.

E.V. Smith Research Center Field Crops Unit - Shorter, AL			
Regular - Maturity Groups Mid- to Late V, VI & VII			
Cultivar		Yield	
Group V		(bu/acre)	
Terral REV 56R63		32	
Syngenta NK S 59-V9		32	
Progeny P 5610RY		31	
Progeny P 5960LL		31	
Terral REV 55R53		31	
UA 5612 C		30	
Terral REV 57R21		30	
Osage		29	
Progeny P 5555RY		29	
Syngenta NK S 55-Q3		29	
Mycogen 5N550R2		28	
Asgrow AG 5935		28	
Asgrow AG 5535		28	
Terral REV 56A54		27	
R04-1250 RR		26	
Group VI			
Progeny P 6710RY		31	
Group VII			
Progeny P 7310RY		31	
Bayer HBK RY7523		31	
Trial mean		30	
L.S.D. (0.10)		2	
C.V. (%)		9.8	
Pr>F		0.0599	

**L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.*

Table 9. Performance of Soybean Cultivars in Central Alabama, 2014.**E.V. Smith Res. Center Plant Breeding Unit - Tallassee AL****Maturity Group IV**

Not included due to severe environmental conditions and low yield.

Table 10. Soybean cultivar tolerance to iron chlorosis in Central Alabama, 2014.

Black Belt Station - Marion Junction, AL			
Sumter soil - Maturity Groups IV & V			
Cultivar	Iron chlorosis*	Yield**	
	(0 to 10)		
Asgrow AG 5335	8.9		
Asgrow AG 5535	6.7		
Asgrow AG 5935	7.1		
Bayer HBK RY5221	6.7		
Bayer HBK RY5421	6.9		
Dyna-Gro S56RY84	6.4		
Ellis	8.3		
HBK LL 4850	8.7		
HBK LL 4950	6.8		
HBK LL 4953	8.8		
MorSoy 46X04	7.0		
MorSoy 47X12	6.0		
MorSoy 48X02	6.7		
MorSoy 48X34	7.2		
MorSoy 49X54	7.2		
MorSoy Extra 51X31	3.7		
MorSoy Extra 53X82	5.8		
MorSoy Extra 54X41	3.2		
MorSoy Extra 56X02	7.0		
Mycogen 5N451R2	4.7		
Mycogen 5N452R2	8.7		
Mycogen 5N478R2	6.0		
Mycogen 5N479R2	7.2		
Mycogen 5N540R2	5.9		
Mycogen 5N550R2	6.4		
Mycogen MYCX54490NR2	6.2		
Mycogen X54522NR2	3.0		
Osage	2.7		
Ozark	6.1		
Progeny P 5555RY	6.6		
Progeny P 5610RY	5.2		
R04-1250 RR	4.2		
R04-1268 RR	2.3		
R05-374	8.1		
Terral REV 51R53	6.1		
Terral REV 52A94	4.8		
Terral REV 52R74	8.2		
Terral REV 53R23	7.2		
Terral REV 54R84	8.1		
Terral REV 55R53	6.9		
Terral REV 56A54	7.7		
Terral REV 56R63	3.0		
Terral REV 57R21	6.8		
UA 5213 C	4.6		
UA 5612 C	4.1		
Trial mean	6.7		
C.V. (%)	16.8		
LSD 0.10)	1.4		
Pr>F	0.0001		

*Rating based on 0 = no chlorosis; 10 = complete defoliation.

**Plots were not harvested due to severe iron chlorosis.

Table 11. Soybean cultivar tolerance to iron chlorosis in Central Alabama, 2014.**Black Belt Station - Marion Junction, AL****Sumter soil - Maturity Groups VI & VII**

Cultivar		Iron chlorosis*	Yield**
		(0 to 10)	
Bayer HBK RY7523		4.6	
Dyna-Gro S65RY73		4.4	
Dyna-Gro S69RY34		3.9	
Dyna-Gro S74RY15		5.4	
Dyna-Gro S77RY85		5.6	
Progeny P 6710RY		3.0	
Progeny P 7310RY		4.0	
Trial mean		4.4	
C.V. (%)		17.8	
LSD 0.10)		1.1	
Pr>F		0.0225	

*Rating based on 0 = no chlorosis; 10 = complete defoliation.

**Plots were not harvested due to severe iron chlorosis.

Table 12. Performance of Soybean Cultivars in Central Alabama, 2014.

Black Belt Station - Marion Junction, AL			
Vaiden Soil - Maturity Groups IV & V			
Cultivar		Yield	
Group IV		(bu/acre)	
Ellis		38	
MorSoy 49X54		38	
Mycogen 5N451R2		37	
MorSoy 48X02		35	
MorSoy 48X34		35	
Mycogen MYCX54490NR2		35	
MorSoy 47X12		35	
HBK LL 4953		34	
Mycogen 5N452R2		33	
Mycogen 5N478R2		33	
Mycogen 5N479R2		33	
HBK LL 4950		33	
MorSoy 46X04		30	
HBK LL 4850		28	
Group V			
MorSoy Extra 54X41		44	
Dyna-Gro S56RY84		43	
UA 5612 C		41	
Terral REV 56A54		41	
Terral REV 56R63		40	
MorSoy Extra 51X31		39	
Terral REV 51R53		39	
Progeny P 5555RY		39	
Mycogen 5N550R2		38	
Ozark		38	
MorSoy Extra 53X82		38	
R05-374		37	
R04-1250 RR		37	
Mycogen 5N540R2		37	
Terral REV 57R21		36	
Asgrow AG 5335		36	
Bayer HBK RY5221		36	
Progeny P 5610RY		36	
MorSoy Extra 56X02		36	
Mycogen X54522NR2		35	
Terral REV 55R53		35	
R04-1268 RR		34	
Osage		34	
Asgrow AG 5535		34	
Terral REV 54R84		33	
Bayer HBK RY5421		32	
Terral REV 53R23		32	
Asgrow AG 5935		32	
UA 5213 C		32	
Terral REV 52A94		30	
Terral REV 52R74		29	
Trial mean		36	
L.S.D. (0.10)		4	
C.V. (%)		12.4	
Pr>F		0.0061	

*L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.

Table 14. Performance of Soybean Cultivars in Central Alabama, 2014.

Black Belt REC - Marion Junction, AL			
Vaiden Soil - Maturity Groups VI & VII			
Cultivar		Yield	
Group VI		(bu/acre)	
Progeny P 6710RY		43	
Dyna-Gro S65RY73		41	
Dyna-Gro S69RY34		41	
Group VII			
Bayer HBK RY7523		39	
Progeny P 7310RY		37	
Dyna-Gro S74RY15		34	
Dyna-Gro S77RY85		32	
Trial mean		38	
L.S.D. (0.10)		3	
C.V. (%)		10	
Pr>F		0.0345	

*L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.

Table 15. Performance of Soybean Cultivars in South Alabama, 2014.

Brewton Agricultural Research Unit - Brewton, AL			
Regular - Maturity Groups IV & V			
Cultivar		Yield	
Group IV		(bu/acre)	
Mycogen MYCX54490NR2		56	
Mycogen 5N478R2		54	
Mycogen 5N451R2		52	
HBK LL 4850		49	
Mycogen 5N479R2		46	
Ellis		45	
HBK LL 4953		44	
Mycogen 5N452R2		44	
HBK LL 4950		39	
Group V			
Terral REV 55R53		65	
Mycogen X54522NR2		65	
Mycogen 5N550R2		63	
Terral REV 53R23		62	
Syngenta NK S 59-V9		61	
Terral REV 54R84		60	
Progeny P 5555RY		60	
Mycogen 5N540R2		58	
Terral REV 56R63		56	
Terral REV 52A94		55	
Syngenta NK S 55-Q3		55	
R04-1250 RR		55	
UA 5612 C		52	
R04-1268 RR		51	
Terral REV 51R53		50	
Terral REV 56A54		48	
UA 5213 C		48	
Progeny P 5610RY		48	
Bayer HBK RY5221		47	
R05-374		47	
Terral REV 52R74		46	
Bayer HBK RY5421		45	
Progeny P 5213RY		43	
Terral REV 57R21		43	
Osage		42	
Ozark		42	
Progeny P 5333RY		37	
Trial mean		51	
L.S.D. (0.10)		6	
C.V. (%)		15.4	
Pr>F		0.0001	

*L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.

Table 16. Performance of Soybean Cultivars in South Alabama, 2014.**Brewton Agricultural Research Unit - Brewton, AL
Regular - Maturity Groups VI & VII**

Cultivar		Yield	
Group VI		(bu/acre)	
NK Brand S67-R6		63	
Progeny P 6710RY		63	
Group VII			
Bayer HBK RY7523		68	
Progeny P 7310RY		65	
NK Brand S77-T7		63	
Asgrow AG 7535		56	
Trial mean		63	
L.S.D. (0.10)		NS	
C.V. (%)		11.6	
Pr>F		0.5538	

**L.S.D., Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.*

Table 17. Performance of Soybean Cultivars in Southwest Alabama, 2014.

Gulf Coast REC - Fairhope, AL
Regular - Maturity Groups IV & V

Cultivar	Yield
Group IV	(bu/acre)
HBK LL 4850	54
Mycogen 5N451R2	53
Mycogen 5N479R2	52
Ellis	51
Mycogen 5N478R2	48
Mycogen MYCX54490NR2	48
HBK LL 4950	48
HBK LL 4953	45
Mycogen 5N452R2	43
Group V	
Mycogen 5N550R2	58
Syngenta NK S 55-Q3	56
Bayer HBK RY5421	55
Terral REV 56R63	55
Terral REV 54R84	55
UA 5612 C	53
Terral REV 57R21	53
Mycogen X54522NR2	53
Terral REV 55R53	52
Progeny P 5610RY	52
Progeny P 5555RY	52
Syngenta NK S 59-V9	51
Terral REV 52A94	51
Ozark	50
Terral REV 53R23	50
Mycogen 5N540R2	50
R04-1250 RR	50
R04-1268 RR	50
R05-374	48
Osage	47
Terral REV 56A54	47
UA 5213 C	47
Terral REV 51R53	45
Bayer HBK RY5221	44
Terral REV 52R74	43
Trial mean	50
L.S.D. (0.10)	4
C.V. (%)	9.8
Pr>F	0.0006

**L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.*

Table 18. Performance of Soybean Cultivars in Southwest Alabama, 2014.

Gulf Coast REC - Fairhope, AL			
Regular - Maturity Groups VI & VII			
Cultivar		Yield	
Group VI		(bu/acre)	
Dyna-Gro S69RY34		67	
Progeny P 6710RY		66	
Dyna-Gro S65RY73		60	
NK Brand S67-R6		58	
Group VII			
Dyna-Gro S77RY85		72	
NK Brand S77-T7		71	
Progeny P 7310RY		69	
Dyna-Gro S74RY15		68	
Asgrow AG 7535		68	
Bayer HBK RY7523		62	
Trial mean		66	
L.S.D. (0.10)		4	
C.V. (%)		8.2	
Pr>F		0.0099	

**L.S.D, Least significant difference at the 10% level; NS, not statistically different, C.V., coefficient of variation.*

Table 19 . Cultural Practices for Soybean Cultivar Tests in 2014

Location	Maturity Group Trial	Date planted	Row width	Herbicide(s) used
			<i>inches</i>	
Belle Mina	Group IV	April 21	30	Reflex
	Group IV-V	May 12	30	Select Max
	Group Mid-Late V	May 22	30	Select Max
Crossville	Group IV	May 1	30	Select Max
	Group IV-V	May 13	30	Select Max
	Group Mid-Late V	May 23	30	Select Max
Tallassee	Group IV	June 7	30	Dual
Shorter	Group IV-V	June 17	36	Fusilade
	Group VI-VII	June 17	36	Gramoxone, Fusilade
Marion Junction	Group IV-V (Sumter)	May 21	36	UltraBlazer
	Group VI-VII (Sumter)	May 21	36	UltraBlazer
	Group IV-V (Vaiden)	May 22	36	UltraBlazer
	Group VI-VII (Vaiden)	May 22	36	UltraBlazer
Brewton	Group IV-V	June 5	36	Dual
	Group VI-VII	June 5	36	Dual
Fairhope	Group IV-V	June 9	38	Poast
	Group VI-VII	June 9	38	Poast

Table 20. Rainfall at Trial Locations During 2014 Growing Season

Month	Days	Belle Mina	Crossville	Shorter	Tallassee	Marion Junction	Brewton	Fairhope
		----- inches -----						
May	1-5	0.00	0.06	0.01	0.00	0.00	0.05	0.01
	6-10	0.10	0.10	2.02	1.22	0.77	0.26	1.41
	11-15	0.71	1.50	2.68	2.37	2.44	4.19	2.51
	16-20	1.05	1.30	0.03	0.00	0.00	0.00	0.00
	21-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	26-31	0.85	1.03	1.42	0.44	1.23	1.79	4.26
June	1-5	0.25	0.30	0.38	0.41	0.00	0.49	1.49
	6-10	3.75	2.30	3.71	2.72	0.69	2.99	0.00
	11-15	0.85	0.88	0.52	0.27	0.20	0.97	4.28
	16-20	0.00	0.07	0.01	0.01	0.00	0.08	0.50
	21-25	0.23	1.69	1.10	0.70	0.09	1.34	1.99
	26-31	1.87	1.20	0.26	0.61	1.73	0.35	0.41
July	1-5	0.01	0.17	0.00	0.00	0.07	0.00	0.00
	6-10	2.25	0.10	0.45	0.42	0.33	0.08	0.00
	11-15	0.00	1.90	0.80	0.25	0.12	1.46	1.40
	16-20	2.31	0.72	2.68	2.57	0.51	1.88	3.92
	21-25	0.20	3.91	0.04	0.39	1.04	0.94	0.03
	26-31	0.00	0.00	0.00	0.00	0.00	1.55	1.01
August	1-5	0.01	0.00	0.23	1.25	0.00	0.05	0.23
	6-10	0.22	1.04	0.24	0.80	0.12	0.23	0.65
	11-15	0.01	0.01	0.17	1.43	0.00	2.64	0.11
	16-20	0.97	0.23	1.24	0.71	0.00	2.41	0.49
	21-25	0.02	0.14	0.62	1.16	0.00	0.00	0.00
	26-31	0.00	0.37	0.01	0.04	1.12	0.00	0.22
September	1-5	0.42	1.38	0.77	2.82	0.02	0.01	0.19
	6-10	0.18	0.05	0.16	0.99	0.79	1.30	0.55
	11-15	0.31	0.08	0.05	0.18	0.71	1.02	2.92
	16-20	0.35	0.04	0.00	0.02	0.00	1.10	1.55
	21-25	0.00	0.01	1.03	0.65	0.00	0.03	0.00
	26-31	0.02	0.00	0.00	0.03	0.01	0.00	0.01
October	1-5	0.51	0.53	0.44	0.44	0.71	0.12	0.74
	6-10	1.24	0.41	0.00	0.00	0.00	0.00	0.00
	11-15	6.87	3.36	2.62	2.18	4.36	4.83	1.72
	16-20	0.01	0.01	0.02	0.00	0.00	0.00	0.00
	21-25	0.00	0.00	0.03	0.00	0.00	0.00	0.00
	26-31	0.49	0.47	0.22	0.02	0.08	0.20	0.00

Table 21 . Soybean Entries and Sources for 2014

Source	Entry
Bayer CropScience Tifton, Georgia	HBK brand varieties
Cache River Valley Seed Cash, Arkansas	MorSoy brand varieties
Crop Production Services Kinston, Alabama	Dyna-Gro brand varieties
Monsanto St. Louis, Missouri	Asgrow AG brand varieties
Mycogen Seed Marion, Arkansas	Mycogen brand varieties
Progeny Ag Products Wynne, Arkansas	Progeny brand varieties
Syngenta/NK Brand Seed Indianloa, 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 5612C, UA 5213C, Osage, Ozark, R05-374*, R04-1250RR*, R04-1268RR*

* Experimental lines

Acknowledgements

We would like to express our appreciation for the work and dedication of the directors, associate/assistant directors, and staff and field personnel of the Alabama Experiment Station outlying units without whom this work would not be possible. Thanks are also expressed to the producers and citizens of Alabama for supporting research on the production of food and fiber across our state.

Alabama Experiment Station Outlying Units with Annual Row Crop Variety Trials

Northern Region

Sand Mountain Research and Extension Center, Crossville

Joyce Treadaway Ducar, Director

Tennessee Valley Research and Extension Center, Belle Mina

Chet Norris, Director

David Harkins, Associate Director



Central Region

Black Belt Research and Extension Center, Marion Junction

Jamie Yeager, Director

Gene Pegues, Associate Director

E.V. Smith Research and Extension Center, Plant Breeding & Field Crops Units, Tallassee

Greg Pate, Director

Jason Burkett, Associate Director

Shawn Scott, Associate Director

Prattville Agricultural Research Unit, Prattville

Don Moore, Director



Southern Region

Brewton Agricultural Research Unit, Brewton

Malcomb Pegues, Director

Gulf Coast Research and Extension Center, Fairhope

Malcomb Pegues, Director

Jarrold Jones, Assoc. Director

Wiregrass Research and Extension Center, Headland

Larry Wells, Director

Brian Gamble, Assoc. Director



Issued in cooperation with the Alabama Cooperative Extension System, Dr. Gary Lemme, Director
Information contained herein is available to all persons regardless of race, color, sex, or national origin. Issued in furtherance of Cooperative Extension work in agriculture and home economics, Acts of May 8, and June 30, 1914, and other related acts, in cooperation with the U.S. Department of Agriculture. The Alabama Cooperative Extension System (Alabama A&M University and Auburn University) offers educational programs, materials, and equal opportunity employment to all people without regard to race, color, national origin, religion, sex, age, veteran status, or disability.