Performance of Soybean Cultivars

In Alabama, 2015

Charles Potter 1925
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"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
	Wynnville fine sandy loam
	Tennessee Valley Research & Ext. Center
	Decatur silt loam
Central	E.V. Smith Field Crops Unit
	Cowart's loamy sand
	Black Belt Research & Ext. Center
	Sumter Soil & 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 2015, soybean trials were treated with foliar fungicides.

*No soybean trials at these locations.

Tables

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

2015 Soybean Cultivar Yield Performance

Northern Region

Central Region

Southern Region

Management, rainfall, and entry sources

Table 1. Performance of Soybean Cultivars in North Alabama, 2015.

Tennessee Valley REC - Belle Mina, AL

Maturity Group IV

Cultivar		Yield
Group IV		**(bu/acre)**
HBK LL 4950		69
HBK LL 4953		68
Terral REV 49R94		54
Dyna-Gro S49RY25		54
Dyna-Gro S48RS53		53
Ellis		51
Credenz CZ 4748LL		50
Terral REV 47R53		50
USG 74B83R		49
Credenz CZ 4959RY		48
USG 74D95RS		47
Terral REV 49A55		47
Asgrow AG 4835		46
Terral REV 47R34		46
Mycogen 5N479R2		46
Mycogen 5N433R2		45
USG 74A74RS		44
Mycogen 5N490R2		43
Mycogen 5N452R2		39
Asgrow AG 4135		31
Asgrow AG 4336		31
Trial mean		**48**
LSD (0.10)		**5**
CV (%)		**12**
Pr>F		**0.0001**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 2. Performance of Soybean Cultivars in North Alabama, 2015

Tennessee Valley REC - Belle Mina, AL
Regular - Groups IV & V

Cultivar		Yield
Group IV		**(bu/acre)**
Progeny P 4930LL		78
HBK LL 4953		74
Terral REV 49A55		72
Terral REV 47R34		72
Progeny P 4757RY		72
Terral REV 47R53		72
Progeny P 4788RY		72
Credenz CZ 4748LL		71
Progeny P 4814LLS		70
Terral REV 49R94		68
Progeny P 4850RYS		68
Credenz CZ 4959RY		68
Progeny P 4613RYS		68
HBK LL 4950		65
Mycogen 5N479R2		64
GoSoy 4914 GTS		64
Progeny P 4900RY		61
Schillinger 495.RC		60
Mycogen 5N490R2		56
Group V		
Credenz CZ 5150LL		74
R09-430		73
Progeny P 5160LL		72
Mycogen 5N501R2		72
Bayer HBK RY5221		72
AGS 533LL		71
Credenz CZ 5445LL		71
Terral REV 51A56		70
GoSoy Leland		69
USG 75J45R		69
Mycogen 5N522R2		68
Credenz CZ 5242LL		68
Progeny P 5460LL		67
Asgrow AG 5335		67
GoSoy 5115 LL		66
Progeny P 5414LLS		65
USG 75T40		65
Credenz CZ 5225LL		65
Dyna-Gro S54RY43		65
Progeny P 5213RY		65
UA 5213 C		65
Progeny P 5333RY		63
Terral REV 52A94		62
UA 5414 RR		61
Progeny P 5226RYS		60
Schillinger 5220.RC		56
Trial mean		**68**
LSD (0.10)		**6**
CV (%)		**11**
Pr>F		**0.1345**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 3. Performance of Soybean Cultivars in North Alabama, 2015

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

Cultivar		Yield
Mid-to-Late Group V		**(bu/acre)**
Dyna-Gro S56RY84		67
Ozark		63
USG 75B75R		63
Progeny P 5752RY		62
UA 5814 HP		62
Progeny P 5610RY		61
UA 5612 C		60
Terral REV 56R63		60
AGS 568RR		60
Asgrow AG 5535		58
Credenz CZ 5515LL		57
Progeny P 5960LL		57
Osage		56
Terral REV 57R21		55
Mycogen 5N550R2		53
Progeny P 5555RY		52
Terral REV 55R53		52
Asgrow AG 5935		47
Trial mean		**58**
LSD (0.10)		**5**
CV (%)		**11**
Pr>F		**0.0862**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 4. Performance of Soybean Cultivars in North Alabama, 2015

Tennessee Valley REC - Belle Mina, AL
Regular - Maturity Groups VI & VII

Cultivar		Yield
Maturity Group VI		**(bu/acre)**
Progeny P 6355LL		59
AGS 674LL		51
Progeny P 6710RY		51
Progeny P 6215RY		45
Maturity Group VII		
Progeny P 7215RYS		52
Progeny P 7310RY		48
AGS 738 RR		46
Trial mean		**50**
LSD (0.10)		**5**
CV (%)		**12**
Pr>F		**0.2133**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 5. Performance of Soybean Cultivars in Northeast Alabama, 2015.

Sand Mountain REC - Crossvile, AL
Maturity Group IV

Cultivar Group IV		Yield (bu/acre)
Mycogen 5N479R2		60
HBK LL 4950		59
Dyna-Gro S48RS53		58
Mycogen 5N490R2		54
USG 74A74RS		54
HBK LL 4953		54
USG 74D95RS		54
Ellis		53
USG 74B83R		53
Credenz CZ 4748LL		53
Credenz CZ 4959RY		52
Terral REV 49R94		51
Asgrow AG 4835		51
Mycogen 5N433R2		50
Terral REV 47R34		48
Terral REV 49A55		47
Mycogen 5N452R2		46
Dyna-Gro S49RY25		44
Asgrow AG 4135		42
Asgrow AG 4336		40
Terral REV 47R53		39
Trial mean		**51**
LSD (0.10)		**4**
CV (%)		**12**
Pr>F		**0.0001**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 6. Performance of Soybean Cultivars in Northeast Alabama, 2015.

Sand Mountain REC - Crossvile, AL
Regular - Maturity Groups IV & V

Cultivar		Yield
Group IV		**(bu/acre)**
Mycogen 5N479R2		54
HBK LL 4950		53
Credenz CZ 4959RY		51
Progeny P 4850RYS		51
Progeny P 4930LL		49
Credenz CZ 4748LL		47
Progeny P 4757RY		43
Terral REV 49A55		42
HBK LL 4953		42
Progeny P 4788RY		42
Terral REV 49R94		40
Progeny P 4613RYS		40
Terral REV 47R53		39
Terral REV 47R34		38
Progeny P 4814LLS		38
Mycogen 5N490R2		36
GoSoy 4914 GTS		35
Schillinger 495.RC		34
Progeny P 4900RY		32
Group V		
Asgrow AG 5335		61
GoSoy 5115 LL		58
Credenz CZ 5242LL		58
UA 5213 C		56
Credenz CZ 5150LL		55
Progeny P 5226RYS		55
Mycogen 5N501R2		52
R09-430		51
AGS 533LL		51
USG 75T40		49
Credenz CZ 5225LL		47
Dyna-Gro S54RY43		45
Mycogen 5N522R2		45
Progeny P 5160LL		44
Progeny P 5333RY		44
Credenz CZ 5445LL		43
Progeny P 5414LLS		43
Progeny P 5213RY		41
GoSoy Leland		40
Terral REV 52A94		39
UA 5414 RR		37
Schillinger 5220.RC		34
Progeny P 5460LL		34
Bayer HBK RY5221		32
USG 75J45R		32
Terral REV 51A56		31
Trial mean		**44**
LSD (0.10)		**9**
CV (%)		**28**
Pr>F		**0.0139**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 7. Performance of Soybean Cultivars in Northeast Alabama, 2015.

Sand Mountain REC - Crossville, AL
Regular - Mid-to-Late Group V

Cultivar		Yield
Mid-to-Late Group V		**(bu/acre)**
Mycogen 5N550R2		66
AGS 568RR		64
Ozark		63
Progeny P 5610RY		61
Asgrow AG 5935		60
USG 75B75R		60
Progeny P 5555RY		60
Terral REV 57R21		59
Progeny P 5752RY		59
UA 5612 C		58
Osage		56
Dyna-Gro S56RY84		53
Progeny P 5960LL		53
Terral REV 55R53		53
UA 5814 HP		53
Terral REV 56R63		52
Asgrow AG 5535		51
Credenz CZ 5515LL		51
Trial mean		**57**
LSD (0.10)		**6**
CV (%)		**15**
Pr>F		**0.3547**

Table 8. Performance of Soybean Cultivars in Northeast Alabama, 2015.

Sand Mountain REC - Crossvile, AL
Regular - Maturity Groups VI & VII

Cultivar		Yield
Group VI		**(bu/acre)**
AGS 674LL		48
Progeny P 6355LL		47
Progeny P 6710RY		43
Progeny P 6215RY		38
Group VII		
AGS 738 RR		51
Progeny P 7215RYS		50
Progeny P 7310RY		47
Trial mean		**46**
LSD (0.10)		**2**
CV (%)		**8**
Pr>F		**0.0012**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 9. Performance of Soybean Cultivars in Central Alabama, 2015.

E.V. Smith Research Center Field Crops Unit - Shorter, AL
Regular - Maturity Groups IV & V

Cultivar		Yield
Group IV		**(bu/acre)**
Mycogen 5N479R2		52
Mycogen 5N490R2		51
Credenz CZ 4748LL		50
Progeny P 4613RYS		46
Terral REV 49R94		46
Progeny P 4930LL		45
HBK LL 4953		45
Terral REV 47R34		45
HBK LL 4950		44
Progeny P 4788RY		43
Progeny P 4850RYS		43
Terral REV 49A55		42
Terral REV 47R53		42
Progeny P 4757RY		40
Progeny P 4900RY		38
Credenz CZ 4959RY		36
Progeny P 4814LLS		34
Group V		
AGS 533LL		42
Progeny P 5414LLS		42
Terral REV 51A56		40
Bayer HBK RY5221		37
Credenz CZ 5150LL		36
Credenz CZ 5242LL		35
Terral REV 52A94		35
Credenz CZ 5225LL		35
Mycogen 5N501R2		33
UA 5213 C		33
UA 5414 RR		31
USG 75T40		31
Asgrow AG 5335		30
Progeny P 5226RYS		30
USG 75J45R		30
Progeny P 5460LL		30
Progeny P 5160LL		30
R09-430		30
Credenz CZ 5445LL		30
Mycogen 5N522R2		29
Progeny P 5213RY		23
Progeny P 5333RY		21
Trial mean		**37**
LSD (0.10)		**6**
CV (%)		**17**
Pr>F		**0.0001**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 10. Performance of Soybean Cultivars in Central Alabama, 2015.

E.V. Smith Research Center Field Crops Unit - Shorter, AL
Regular - Mid-to-Late Maturity Group V

Cultivar		Yield
Mid-to-Late Group V		**(bu/acre)**
Ozark		39
Terral REV 56R63		37
Credenz CZ 5515LL		37
UA 5814 HP		36
Terral REV 57R21		35
UA 5612 C		35
Progeny P 5610RY		34
Mycogen 5N550R2		34
Terral REV 55R53		33
Progeny P 5960LL		33
Progeny P 5752RY		32
Asgrow AG 5535		31
Progeny P 5555RY		29
USG 75B75R		29
Asgrow AG 5935		27
AGS 568RR		23
Osage		21
Trial mean		**32**
LSD (0.10)		**4**
CV (%)		**14**
Pr>F		**0.0001**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 11. Performance of Soybean Cultivars in Central Alabama, 2015.

E.V. Smith Research Center Field Crops Unit - Shorter, AL
Regular - Maturity Groups VI & VII

Cultivar		Yield
Group VI		**(bu/acre)**
Credenz CZ 6109LL		40.4
AGS 674LL		39.2
Progeny P 6710RY		36.9
Credenz CZ 6060RY		36.2
Progeny P 6355LL		33.8
Credenz CZ 6515LL		33.4
Credenz CZ 6316LL		32.1
Progeny P 6215RY		31.1
Group VII		
Credenz CZ 7070RY		41.5
Credenz CZ 7007LL		41.1
Credenz CZ 7132LL		41.1
AGS 738 RR		40.3
Progeny P 7310RY		40.1
Progeny P 7215RYS		39.5
Bayer HBK RY7523		36.9
Trial mean		**38**
LSD (0.10)		**3**
CV (%)		**10**
Pr>F		**0.0074**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 12. Performance of Soybean Cultivars in Central Alabama, 2015.

Plant Breeding Unit - Tallassee, AL
Regular - Maturity Group IV

Cultivar		Yield
Group IV		**(bu/acre)**
Terral REV 47R53		57
HBK LL 4950		56
Terral REV 49R94		56
HBK LL 4953		53
Credenz CZ 4959RY		51
Asgrow AG 4336		48
Mycogen 5N479R2		44
Credenz CZ 4748LL		42
USG 74B83R		41
Mycogen 5N490R2		41
USG 74D95RS		40
Terral REV 47R34		40
Mycogen 5N433R2		38
USG 74A74RS		37
Terral REV 49A55		36
Asgrow AG 4835		36
Ellis		36
Asgrow AG 4135		35
Mycogen 5N452R2		29
Trial mean		**43**
LSD (0.10)		**5**
CV (%)		**15**
Pr>F		**0.0001**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 13. Performance of Soybean Cultivars in Central Alabama, 2015.

Black Belt Station - Marion Junction, AL
Sumter Soil - Maturity Groups IV & V

Cultivar		Iron Chlorosis**	Yield
Group IV		**(0 to 10)**	**(bu/acre)**
Mycogen 5N490R2		3.3	15
Mycogen 5N479R2		4.6	11
Dyna-Gro S49RY25		3.6	10
Credenz CZ 4748LL		5.2	9
Credenz CZ 4959RY		6.5	3
Schillinger 495.RC		8.7	0
GoSoy 4914 GTS		8.5	0
HBK LL 4950		8.1	0
HBK LL 4953		8.3	0
Group V			
Terral REV 56R63		2.1	19
Mycogen 5N522R2		2.8	18
Credenz CZ 5515LL		3.0	17
Progeny P 5752RY		2.9	17
Progeny P 5610RY		2.2	15
UA 5612 C		3.1	14
UA 5814 HP		3.8	14
Mycogen 5N501R2		5.3	13
AGS 568RR		5.2	13
Asgrow AG 5535		4.4	13
Terral REV 52A94		4.9	13
Progeny P 5960LL		2.2	12
Credenz CZ 5225LL		3.3	12
UA 5414 RR		1.8	12
Osage		1.8	12
UA 5213 C		2.7	12
Mycogen 5N550R2		5.6	11
Dyna-Gro S56RY84		5.1	11
Ozark		4.7	11
R09-430		3.3	11
Credenz CZ 5445LL		3.1	11
GoSoy Leland		4.4	10
Progeny P 5460LL		4.6	8
Terral REV 55R53		5.5	8
Terral REV 57R21		4.6	7
Schillinger 5220.RC		6.4	6
Terral REV 51A56		6.9	5
Asgrow AG 5335		6.6	4
Progeny P 5555RY		6.9	3
Bayer HBK RY5221		6.3	3
Asgrow AG 5935		6.3	2
GoSoy 5115 LL		8.7	0
Credenz CZ 5242LL		8.6	0
Credenz CZ 5150LL		8.3	0
Trial mean			**9**
LSD (0.10)			**3**
CV (%)			**45**
Pr>F			**0.0001**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation.*
***Rating based on 0 = no chlorosis; 10 = complete defoliation.*

Table 14. Performance of Soybean Cultivars in Central Alabama, 2015.

Black Belt Station - Marion Junction, AL
Sumter Soil - Maturity Groups VI & VII

Cultivar		Iron Chlorosis**	Yield
Group VI		**(0 to 10)**	**(bu/acre)**
Progeny P 6355LL		4.8	18
Credenz CZ 6515LL		4.3	17
Progeny P 6710RY		4.3	15
Credenz CZ 6316LL		2.3	14
Credenz CZ 6109LL		3.8	13
Credenz CZ 6060RY		3.8	11
AGS 674LL		6.3	2
Progeny P 6215RY		6.8	0
Group VII			
Credenz CZ 7007LL		2.7	16
AGS 738 RR		3.8	15
Progeny P 7310RY		3.9	14
Credenz CZ 7132LL		4.9	13
Credenz CZ 7070RY		5.4	12
Bayer HBK RY7523		3.8	11
Progeny P 7215RYS		7.2	0
Trial mean			**11**
LSD (0.10)			**2**
CV (%)			**23**
Pr>F			**0.0001**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation.*
***Rating based on 0 = no chlorosis; 10 = complete defoliation.*

Table 15. Performance of Soybean Cultivars in Central Alabama, 2015.

Black Belt Station - Marion Junction, AL
Vaiden Soil - Maturity Groups IV & V

Cultivar		Yield
Group IV		**(bu/acre)**
HBK LL 4953		42
HBK LL 4950		41
Dyna-Gro S49RY25		36
GoSoy 4914 GTS		28
Credenz CZ 4748LL		27
Mycogen 5N490R2		26
Mycogen 5N479R2		23
Schillinger 495.RC		23
Credenz CZ 4959RY		23
Group V		
Asgrow AG 5335		45
Dyna-Gro S56RY84		43
Ozark		43
Terral REV 56R63		42
GoSoy 5115 LL		41
Progeny P 5555RY		41
AGS 568RR		41
R09-430		41
Osage		41
Progeny P 5752RY		41
Terral REV 55R53		41
Asgrow AG 5535		40
Credenz CZ 5150LL		40
UA 5612 C		40
Terral REV 57R21		40
UA 5814 HP		39
Mycogen 5N550R2		39
Progeny P 5960LL		39
Credenz CZ 5242LL		39
Progeny P 5610RY		37
GoSoy Leland		37
Asgrow AG 5935		37
Credenz CZ 5515LL		37
Terral REV 52A94		36
Mycogen 5N522R2		36
Bayer HBK RY5221		35
Credenz CZ 5225LL		34
Mycogen 5N501R2		34
Terral REV 51A56		33
Progeny P 5460LL		33
UA 5213 C		32
Credenz CZ 5445LL		29
UA 5414 RR		28
Schillinger 5220.RC		27
Trial mean		**36**
LSD (0.10)		**8**
CV (%)		**26**
Pr>F		**0.1834**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 16. Performance of Soybean Cultivars in Central Alabama, 2015.

Black Belt Station - Marion Junction, AL
Vaiden Soil - Maturity Groups VI & VII

Cultivar		Yield
Group VI		**(bu/acre)**
Credenz CZ 6109LL		49
Credenz CZ 6515LL		48
Progeny P 6710RY		47
Progeny P 6355LL		46
Progeny P 6215RY		45
Credenz CZ 6060RY		43
AGS 674LL		43
Credenz CZ 6316LL		40
Group VII		
Progeny P 7215RYS		52
Credenz CZ 7070RY		48
Credenz CZ 7007LL		48
AGS 738 RR		46
Progeny P 7310RY		46
Credenz CZ 7132LL		44
Bayer HBK RY7523		41
Trial mean		**46**
LSD (0.10)		**4**
CV (%)		**10**
Pr>F		**0.1760**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 17. Performance of Soybean Cultivars in South Alabama, 2015.

Brewton Agricultural Unit - Brewton, AL
Regular - Maturity Groups IV & V

Cultivar		Yield
Group IV		**(bu/acre)**
GoSoy 4914 GTS		34
Mycogen 5N490R2		31
Schillinger 495.RC		29
Group V		
GoSoy Leland		47
R09-430		46
Terral REV 55R53		44
Terral REV 52A94		44
Terral REV 56R63		44
AGS 568RR		43
Mycogen 5N550R2		43
Ozark		42
Progeny P 5752RY		41
Progeny P 5555RY		41
Progeny P 5610RY		40
UA 5414 RR		38
Terral REV 51A56		37
Mycogen 5N522R2		36
UA 5814 HP		34
Progeny P 5333RY		34
UA 5612 C		33
Progeny P 5460LL		33
Progeny P 5213RY		33
Schillinger 5220.RC		33
Progeny P 5960LL		32
Mycogen 5N501R2		32
Terral REV 57R21		31
Progeny P 5226RYS		31
GoSoy 5115 LL		30
UA 5213 C		27
Osage		26
Trial mean		**36**
LSD (0.10)		**5**
CV (%)		**16**
Pr>F		**0.0001**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 18. Performance of Soybean Cultivars in South Alabama, 2015.

Brewton Agricultural Research Unit - Brewton, AL
Regular - Maturity Groups VI, VII & VIII

Cultivar		Yield
Group VI		**(bu/acre)**
Progeny P 6355LL		42
Credenz CZ 6060RY		41
Credenz CZ 6515LL		41
Asgrow AG 6536		39
Progeny P 6215RY		39
AGS 674LL		37
Credenz CZ 6109LL		35
Credenz CZ 6316LL		34
Progeny P 6710RY		34
Group VII		
Progeny P 7310RY		41
Asgrow AG 7535		41
Credenz CZ 7070RY		41
Bayer HBK RY7523		41
AGS 738 RR		39
Credenz CZ 7007LL		36
Progeny P 7215RYS		34
Credenz CZ 7132LL		32
Group VIII		
AGS 828 RR		40
Trial mean		**38**
LSD (0.10)		**4**
CV (%)		**13**
Pr>F		**0.2692**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 19. Performance of Soybean Cultivars in South Alabama, 2015.

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

Cultivar		Yield
Group IV		**(bu/acre)**
Mycogen 5N490R2		62
Group V		
R09-430		64
Terral REV 55R53		64
Mycogen 5N550R2		63
Ozark		62
Progeny P 5752RY		59
Mycogen 5N501R2		59
UA 5814 HP		59
UA 5612 C		59
Progeny P 5610RY		58
Progeny P 5555RY		58
Terral REV 57R21		58
Terral REV 51A56		56
AGS 568RR		56
Mycogen 5N522R2		56
Terral REV 52A94		56
UA 5213 C		55
Terral REV 56R63		55
UA 5414 RR		55
Progeny P 5460LL		55
Osage		53
Progeny P 5960LL		50
Trial mean		**56**
LSD (0.10)		**4**
CV (%)		**10**
Pr>F		**0.1209**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 20. Performance of Soybean Cultivars in South Alabama, 2015.

Gulf Coast REC - Fairhope, AL
Regular - Maturity Groups VI, VII & VIII

Cultivar		Yield
Group VI		**(bu/acre)**
AGS 674LL		62
Asgrow AG 6536		60
Progeny P 6355LL		60
Progeny P 6215RY		59
Credenz CZ 6060RY		59
Credenz CZ 6515LL		57
Credenz CZ 6109LL		56
Progeny P 6710RY		54
Credenz CZ 6316LL		49
Group VII		
Asgrow AG 7535		63
Progeny P 7215RYS		61
Progeny P 7310RY		61
Bayer HBK RY7523		56
AGS 738 RR		56
Credenz CZ 7070RY		55
Credenz CZ 7007LL		52
Dyna-Gro S77RY85		52
Credenz CZ 7132LL		50
Group VIII		
AGS 828 RR		56
Trial mean		**57**
LSD (0.10)		**4**
CV (%)		**10**
Pr>F		**0.0145**

** LSD, Least significant difference at the 10% level; NS, not statistically different; CV, coefficient of variation*

Table 21. Cultural Practices for Soybean Variety Tests in 2015

Location	Type of test	Date planted	Row width	Herbicide used
			- inches -	
Belle Mina	Group IV	May 1	30	Select Max, Reflex
	Group IV-V	June 5	30	Select Max, Storm
	Group Mid-Late V	June 8	30	Select Max, Reflex
	Group VI-VII	June 5	30	Select Max, Reflex
Crossville	Group IV	May 6	30	Select Max
	Group IV-V	May 14	30	Poast Plus, First Rate
	Group Mid-Late V	May 29	30	Select Max
	Group VI-VII	June 10	30	Prowl
Tallassee	Group IV	April 29	30	Poast, Storm
Shorter	Group IV-V	June 5	36	Classic, Select
	Group VI-VII	June 5	36	Classic, Select
Marion Junction	Group IV-V (Sumter)	May 20	36	Blazer,Section
	Group VI-VII (Sumter)	May 20	36	Blazer,Section
	Group IV-V (Vaiden)	May 19	36	Section
	Group VI-VII (Vaiden)	May 19	36	Section
Brewton	Group IV-V	June 4	36	Blazer Ultra, Reflex
	Group VI-VII	June 4	36	Blazer Ultra, Reflex
Fairhope	Group IV-V	June 5	38	First Rate, Reflex
	Group VI-VII	June 5	38	First Rate, Reflex

Table 22. Rainfall at Test Locations During Growing Season, 2015

Month	Days	Belle Mina	Crossville	Shorter	Tallassee	Marion Junction	Brewton	Fairhope
		inches						
May	1-5	0.00	0.00	0.02	0.00	0.00	0.00	0.00
	6-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11-15	0.00	0.00	0.44	0.72	0.00	0.07	0.00
	16-20	1.76	0.78	2.11	1.74	0.42	0.51	0.64
	21-25	0.21	0.28	0.95	0.47	0.64	1.77	0.13
	26-31	3.07	1.37	4.52	3.17	3.29	3.29	1.88
June	1-5	2.26	0.97	0.03	0.03	0.59	0.36	1.69
	6-10	0.03	0.25	0.39	1.66	0.01	0.04	1.19
	11-15	0.71	0.01	1.17	0.97	1.06	0.00	0.68
	16-20	0.14	0.00	0.08	0.26	0.21	0.05	0.00
	21-25	0.34	0.00	0.52	0.79	0.12	1.15	0.34
	26-31	0.58	0.24	2.27	2.12	0.39	1.27	1.01
July	1-5	3.08	2.67	1.69	1.62	2.03	1.79	0.79
	6-10	0.00	0.05	0.00	0.00	0.00	1.35	1.30
	11-15	1.10	0.46	0.85	0.61	0.26	0.15	0.12
	16-20	0.00	0.00	0.23	0.42	0.48	3.88	2.55
	21-25	0.05	0.20	1.95	1.59	0.56	0.37	1.40
	26-31	0.50	1.52	0.03	0.50	0.13	1.55	0.56
August	1-5	0.00	0.00	0.00	0.00	0.00	0.00	1.51
	6-10	2.57	3.36	0.87	1.48	0.01	0.75	1.41
	11-15	0.00	0.76	0.36	1.01	0.26	0.00	0.00
	16-20	2.43	2.82	2.04	2.80	0.93	0.93	2.13
	21-25	2.01	0.51	0.00	0.14	0.78	2.67	0.30
	26-31	0.94	0.24	1.08	0.68	0.09	0.54	0.00
September	1-5	0.61	0.04	0.01	0.01	1.13	0.13	0.00
	6-10	0.21	0.48	0.15	0.58	0.13	0.00	0.92
	11-15	0.57	0.39	0.04	0.00	0.00	0.20	0.56
	16-20	0.00	0.00	0.00	0.00	0.00	0.00	0.34
	21-25	0.06	0.25	0.21	0.39	0.50	0.07	0.05
	26-31	0.16	0.81	0.96	0.85	0.07	3.50	1.71
October	1-5	0.15	0.90	0.37	0.33	0.00	0.02	0.00
	6-10	0.67	0.93	0.54	0.40	0.27	0.00	0.00
	11-15	0.29	0.26	0.04	0.20	0.09	0.00	0.00
	16-20	0.00	0.00	0.01	0.01	0.00	0.00	0.00
	21-25	0.00	0.00	0.21	0.21	0.00	0.00	0.00
	26-31	1.43	2.05	1.21	1.24	1.97	3.89	5.14

Table 23. Entries and Sources for 2015	
Source	**Entry**
AGSouth Genetics	AGS brand varieties
Albany, Georgia	
Bayer CropScience	Credenz/HBK brand varieties
Tifton, Georgia	
Crop Production Services	Dyna-Gro brand varieties
Kinston, Alabama	
Monsanto	Asgrow AG brand varieties
St. Louis, Missouri	
Mycogen Seed	Mycogen brand varieties
Greenville, Mississippi	
Progeny Ag Products	Progeny brand varieties
Wynne, Arkansas	
Stratton Seed	GoSoy/Schillinger brand varieties
Stuttgart, Arkansas	
Terral Seed, Inc.	Terral REV brand varieties
Lake Providence, Louisiana	
UniSouth Genetics, Inc.	USG brand varieties,
Dickson, Tennessee	Ellis
University of Arkansas	UA 5612, UA 5213C, UA 5414RR,
Fayetteville, Arkansas	UA 5814HP, Osage, Ozark,
	R09-430*, R10-197RY*
* Experimental lines	

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