

Performance of Soybean Cultivars In Alabama, 2016



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 22 feet long. Trials were managed according to the location and local practices (Tables 22, 23). 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	E.V. Smith Field Crops Unit Cowart's loamy sand
	Black Belt Research & Ext. Center Sumter silty clay & Vaiden clay
	Plant Breeding Unit, E.V. Smith Res. Ctr. Cahaba fine sandy loam
Southern	Brewton Agricultural Research Unit Benndale fine sandy loam
	Gulf Coast Research & Ext. Center Malbis fine sandy loam

In 2016, soybean trials were treated with foliar fungicides.

Tables

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

2016 Soybean Cultivar Yield Performance

Northern Region

- Table 1. Performance of MG IV soybean cultivars, Tenn. Valley REC, Belle Mina
Table 2. Performance of MG Mid-to-Late IV soybean cultivars, Tenn. Valley REC, Belle Mina
Table 3. Performance of MG Early V soybean cultivars, Tenn. Valley REC, Belle Mina
Table 4. Performance of MG Mid-to-Late V soybean cultivars, Tenn. Valley REC, Belle Mina
Table 5. Performance of MG IV soybean cultivars, Sand Mtn. REC, Crossville
Table 6. Performance of MG Mid-to-Late IV soybean cultivars, Sand Mtn. REC, Crossville
Table 7. Performance of MG Early V soybean cultivars, Sand Mtn. REC, Crossville
Table 8. Performance of MG Mid-to-Late V soybean cultivars, Sand Mtn. REC, Crossville

Central Region

- Table 9. Performance of MG Mid-to-Late IV soybean cultivars, EVS Smith Field Crops Unit, Shorter
Table 10. Performance of MG Early V soybean cultivars, EV Smith Field Crops Unit, Shorter
Table 11. Performance of MG Mid-to-Late V soybean cultivars, EV Smith Field Crops Unit, Shorter
Table 12. Performance of MG VI & VII soybean cultivars, EV Smith Filed Crops Unit, Shorter
Table 13. Performance of MG IV soybean cultivars, EV Smith Plant Breeding Unit, Tallassee
**Table 14. Response of MG IV & V soybeans to iron chlorosis (Sumter silty clay), Black Belt REC*
**Table 15. Response of MG VI & VII soybean to iron chlorosis (Sumter silty clay), Black Belt REC*
Table 16. Perf. of MG IV & V soybean cultivars (Vaiden clay), Black Belt REC, Marion Junction
Table 17. Perf. of MG VI & VII soybean cultivars (Vaiden clay), Black Belt REC, Marion Junction

Southern Region

- Table 18. Performance of MG IV & V soybean cultivars, Brewton Agric. Res. Unit, Brewton
Table 19. Performance of MG VI, VII & VIII soybean cultivars, Brewton Agric. Res. Unit, Brewton
Table 20. Performance of MG IV & V soybean cultivars, Gulf Coast REC, Fairhope
Table 21. Performance of MG VI & VII soybean cultivars, Gulf Coast REC, Fairhope

Management, rainfall, and entry sources

- Table 22. Cultural practices for soybean cultivar tests in 2016
Table 23. Rainfall at trial locations during 2016 growing season
Table 24. Soybean entries and sources for 2016

Table 1. Performance of Soybean Cultivars in North Alabama, 2016

Tennessee Valley REC - Belle Mina, AL		
Regular - Maturity Group IV		
Cultivar		Yield
Group IV		(bu/acre)
Credenz CZ 4656RY		61
Terral REV 48A26		56
HBK LL 4953		54
Dyna-Gro S49XS76		53
Credenz CZ 4540LL		51
Dyna-Gro S48RS53		51
Terral REV 49R94		51
Mycogen 5N479R2		51
Credenz CZ 4590RY		50
USG 74K95RS		50
Credenz CZ 4898RY		49
Ellis		47
Mycogen 5N490R2		46
Mycogen 5N433R2		46
Credenz CZ 4959RY		45
Terral REV 47R34		45
Mycogen 5N452R2		45
Terral REV 48A76		45
Asgrow AG 47X6		45
Asgrow AG 46X6		44
Asgrow AG 45X6		44
Credenz CZ 4818LL		43
Terral REV 45A46		43
Credenz CZ 4748LL		43
Asgrow AG 42X6		34
Trial mean		48
LSD (0.1)		9
CV (%)		14
Pr>F		0.0358

Table 2. Performance in Soybean Cultivars in North Alabama, 2016

Tennessee Valley REC - Belle Mina, AL		
Regular - Mid-to-Late Maturity Group IV		
Cultivar		Yield
Group IV		(bu/acre)
Terral REV 48A76		64
Mycogen 5N479R2		63
Terral REV 48A26		63
Terral REV 49R94		62
Progeny P 4757RY		59
Credenz CZ 4590RY		59
Credenz CZ 4748LL		58
GoSoy 4913LL		58
Progeny P 4247LL		58
Mycogen 5N490R2		58
Credenz CZ 4898RY		57
Progeny P 4814LLS		57
Progeny P 4211RY		57
Progeny P 4788RY		57
Credenz CZ 4656RY		56
GoSoy Ireane		55
Mycogen 5N433R2		55
Mycogen 5N452R2		55
Progeny P 4930LL		55
Credenz CZ 4959RY		54
Progeny P 4900RY		54
AGS GS 4915R2		53
Credenz CZ 4540LL		53
Progeny P 4588RY		52
Credenz CZ 4818LL		52
Progeny P 4613RYS		51
HBK LL 4953		51
Trial mean		57
LSD (0.1)		7
CV (%)		10
Pr>F		0.1823

Table 3. Performance of Soybean Cultivars in North Alabama

Tennessee Valley REC - Belle Mina, AL		
Regular - Early Maturity Group V		
Cultivar		Yield
Group V		(bu/acre)
Mycogen 5N522R2		59
Dyna-Gro S52RS86		58
Dyna-Gro S52RY75		56
Terral REV 51A56		55
GoSoy Leland		55
UA 5213 C		55
Credenz CZ 5445LL		55
Credenz CZ 5225LL		55
USG 7506XTS		54
UA 5014C		54
Progeny P 5226RYS		53
AGS 537LL		52
GoSoy 5115 LL		51
Progeny P 5289RYS		51
Credenz CZ 5150LL		51
Credenz CZ 5375RY		51
UA 5414 RR		50
R09-430		50
Asgrow AG 53X6		50
Credenz CZ 5147LL		50
Credenz CZ 5242LL		49
Asgrow AG 54X6		41
Trial mean		52
LSD (0.1)		5
CV (%)		6
Pr>F		0.0001

Table 4. Performance of Soybean Cultivars in North Alabama, 2016

Tennessee Valley REC - Belle Mina, AL		
Regular - Mid-to-Late Maturity Group V		
Cultivar		Yield
Group V		(bu/acre)
R10-197RY		60
Osage		59
Dyna-Gro S56RY84		57
Terral REV 56R63		56
R10-230		54
Mycogen 5N550R2		53
Progeny P 5752RY		53
Progeny P 5555RY		53
UA 5612 C		52
Credez CZ 5515LL		52
USG 75B75R		52
AGS 568RR		48
UA 5814 HP		46
Dyna-Gro SX16655XT		45
R07-6614RR		32
Trial mean		52
LSD (0.1)		7
CV (%)		10
Pr>F		0.0002

Table 5. Performance of Soybean Cultivars in Northeast Alabama, 2016

Sand Mountain REC - Crossville, AL		
Regular - Maturity Group IV		
Cultivar		Yield
Group IV		(bu/acre)
USG 74K95RS		53
Terral REV 49R94		52
HBK LL 4953		52
Credenz CZ 4748LL		51
Dyna-Gro S49XS76		51
Mycogen 5N479R2		51
Mycogen 5N452R2		51
Terral REV 48A76		50
Mycogen 5N433R2		50
Dyna-Gro S48RS53		48
Terral REV 47R34		48
Credenz CZ 4540LL		47
Credenz CZ 4656RY		47
Ellis		46
Terral REV 48A26		46
Credenz CZ 4959RY		46
Credenz CZ 4818LL		46
Credenz CZ 4590RY		46
Asgrow AG 46X6		43
Mycogen 5N490R2		43
Asgrow AG 45X6		43
Terral REV 45A46		41
Credenz CZ 4898RY		41
Asgrow AG 42X6		38
Asgrow AG 47X6		38
Trial mean		47
LSD (0.1)		5
CV (%)		10
Pr>F		0.0001

Table 6. Performance of Soybean Cultivars in Northeast Alabama, 2016

Sand Mountain REC - Crossville, AL		
Regular - Mid-to-Late Maturity Group IV *		
Cultivar		Yield
Group IV		(bu/acre)
Terral REV 48A26		53
Progeny P 4613RYS		53
Terral REV 48A76		53
Terral REV 49R94		52
Mycogen 5N452R2		52
Progeny P 4757RY		51
Progeny P 4588RY		51
Progeny P 4211RY		49
Credenz CZ 4656RY		49
Mycogen 5N490R2		49
AGS GS 4915R2		49
Credenz CZ 4959RY		49
Mycogen 5N433R2		48
Credenz CZ 4898RY		48
Progeny P 4788RY		47
Mycogen 5N479R2		46
Progeny P 4900RY		45
Credenz CZ 4590RY		44
Trial mean		49
LSD (0.1)		5
CV (%)		9
Pr>F		0.1090
* This test was inadvertently sprayed with glyphosate, so all Liberty Link and conventional cultivars were dropped from the analysis.		

Table 7. Performance of Soybean Cultivars in Northeast Alabama, 2016

Sand Mountain REC - Crossville, AL		
Regular - Early Maturity Group V *		
Cultivar		Yield
Group V		(bu/acre)
Dyna-Gro S52RS86		50
UA 5414 RR		50
Progeny P 5226RYS		49
USG 7506XTS		49
Credeuz CZ 5375RY		48
Dyna-Gro S52RY75		48
Asgrow AG 53X6		47
Progeny P 5289RYS		46
Terral REV 51A56		46
Asgrow AG 54X6		46
Mycogen 5N522R2		45
Trial mean		48
LSD (0.1)		6
CV (%)		10
Pr>F		0.8623
* This test was inadvertently sprayed with glyphosate, so all Liberty Link and conventional cultivars were dropped from the analysis.		

Table 8. Performance of Soybean Cultivars in Northeast Alabama, 2016

Sand Mountain REC - Crossville, AL		
Regular - Mid-to-Late Maturity Group V		
Cultivar		Yield
Group V		(bu/acre)
R10-197RY		42
UA 5612 C		42
Mycogen 5N550R2		42
Terral REV 56R63		42
AGS 568RR		41
Progeny P 5555RY		40
Progeny P 5752RY		40
R10-230		38
Dyna-Gro S56RY84		38
Dyna-Gro SX16655XT		37
Osage		36
USG 75B75R		35
Credenz CZ 5515LL		35
UA 5814 HP		31
R07-6614RR		29
Trial mean		38
LSD (0.1)		5
CV (%)		10
Pr>F		0.0001

Table 9. Performance of Soybean Cultivars in Central Alabama, 2016

E.V. Smith Research Center Field Crops Unit - Shorter, AL		
Regular - Mid-to-Late Maturity Group IV		
Cultivar		Yield
Mid-to-Late Group IV		(bu/acre)
Mycogen 5N490R2		41
Credenz CZ 4540LL		41
Progeny P 4757RY		40
Credenz CZ 4748LL		40
Progeny P 4613RYS		39
Progeny P 4588RY		38
Mycogen 5N479R2		37
Progeny P 4788RY		37
Credenz CZ 4656RY		37
Mycogen 5N452R2		37
Progeny P 4247LL		37
Mycogen 5N433R2		37
GoSoy 4913LL		36
Credenz CZ 4898RY		36
Progeny P 4211RY		36
Progeny P 4814LLS		35
Credenz CZ 4590RY		35
Credenz CZ 4818LL		35
HBK LL 4953		34
GoSoy Ireane		34
Progeny P 4900RY		34
AGS GS 4915R2		33
Progeny P 4930LL		30
Credenz CZ 4959RY		26
Trial mean		36
LSD (0.1)		7
CV (%)		16
Pr>F		0.1301

Table 10. Performance of Soybean Cultivars in Central Alabama, 2016

E.V. Smith Research Center Field Crops Unit - Shorter, AL		
Regular - Early Maturity Group V		
Cultivar		Yield
Early Group V		(bu/acre)
USG 7506XTS		46
Mycogen 5N522R2		45
R09-430		42
GoSoy 5115 LL		42
AGS 537LL		42
Credenz CZ 5150LL		41
Progeny P 5289RYS		39
UA 5014C		39
Credenz CZ 5445LL		39
UA 5213 C		38
GoSoy Leland		38
Credenz CZ 5225LL		37
Asgrow AG 53X6		37
Credenz CZ 5242LL		37
Credenz CZ 5147LL		36
Credenz CZ 5375RY		36
UA 5414 RR		36
Progeny P 5414LLS		35
Progeny P 5226RYS		33
Asgrow AG 54X6		27
Trial mean		38
LSD (0.1)		8
CV (%)		18
Pr>F		0.1463

Table 11. Performance of Soybean Cultivars in Central Alabama, 2016

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)
Mycogen 5N550R2		45
R10-230		44
Progeny P 5555RY		44
Osage		43
UA 5612 C		43
Progeny P 5752RY		43
Terral REV 56R63		43
USG 75B75R		42
R10-197RY		42
AGS 568RR		40
Terral REV 57R21		39
Credenz CZ 5515LL		38
R07-6614RR		34
UA 5814 HP		34
Trial mean		41
LSD (0.1)		3
CV (%)		7
Pr>F		0.0001

Table 12. Performance of Soybean Cultivars in Central Alabama, 2016

E.V. Smith Research Center Field Crops Unit - Shorter, AL	
Regular - Maturity Groups VI & VII	
Cultivar	Yield
Group VI	(bu/acre)
Credenz CZ 6060 RY	28
Credenz CZ 6109 LL	23
Progeny P 6710RY	19
Progeny P 6315LL	19
Group VII	
AGS 738 RR	28
Credenz CZ 7132LL	25
Progeny P 7310RY	25
Bayer HBK RY7523	24
Credenz CZ 7007LL	23
Trial mean	24
LSD (0.1)	7
CV (%)	26
Pr>F	0.3149

Table 13. Performance of Soybean Cultivars in Central Alabama, 2016

Plant Breeding Unit - Tallassee, AL		
Regular - Maturity Group IV		
Cultivar		Yield
Group IV		(bu/acre)
Credenz CZ 4818LL		57
USG 74K95RS		52
Credenz CZ 4590RY		51
Credenz CZ 4748LL		51
Credenz CZ 4656RY		48
Mycogen 5N479R2		46
HBK LL 4953		46
Terral REV 48A26		44
Asgrow AG 46X6		43
Terral REV 45A46		42
Mycogen 5N452R2		41
Terral REV 49R94		41
Credenz CZ 4898RY		41
Credenz CZ 4540LL		40
Terral REV 47R34		39
Mycogen 5N490R2		37
Mycogen 5N433R2		36
Asgrow AG 47X6		35
Asgrow AG 45X6		35
Asgrow AG 42X6		33
Credenz CZ 4959RY		31
Ellis		29
Terral REV 48A76		21
Trial mean		41
LSD (0.1)		14
CV (%)		29
Pr>F		0.016

Table 14. 2016 Iron Chlorosis Ratings	
Black Belt REC	
Sumter silty clay - BBS	Group IV & V trial
Iron chlorosis Rating	
Variety	Average rating (3 reps)
Group IV	
Credenz CZ 4898RY	9.3
HBK LL 4953	9.2
Dyna-Gro S49XS76	8.7
GoSoy 4913LL	8.5
Credenz CZ 4656RY	8.2
AGS GS 4915R2	8.0
Credenz CZ 4748LL	7.8
Credenz CZ 4818LL	7.8
Mycogen 5N490R2	7.7
GoSoy Ireane	7.3
Credenz CZ 4590RY	6.8
Credenz CZ 4959RY	5.7
Credenz CZ 4540LL	5.5
Group V	
Asgrow AG 54X6	9.3
Credenz CZ 5242LL	9.2
GoSoy 5115 LL	9.0
Credenz CZ 5150LL	8.5
R07-6614RR	8.2
R09-430	7.8
Terral REV 52A94	7.8
Mycogen 5N550R2	7.2
Progeny P 5555RY	7.2
Credenz CZ 5515LL	7.2
Credenz CZ 5375RY	7.2
Dyna-Gro S56RY84	7.2
UA 5014C	7.0
Terral REV 57R21	7.0
UA 5612 C	6.8
R10-197RY	6.8
UA 5814 HP	6.7
Terral REV 56R63	6.7
GoSoy Leland	5.8
Credenz CZ 5225LL	5.8
Dyna-Gro S52RS86	5.8
UA 5414 RR	5.7
Credenz CZ 5147LL	5.7
Credenz CZ 5445LL	5.5
Progeny P 5752RY	5.2
Progeny P 5414LLS	5.2
AGS 568RR	4.8
R10-230	4.7
Asgrow AG 53X6	4.7
UA 5213 C	4.5
Mycogen 5N522R2	3.8
Osage	2.3
Ratings made on July 20, 2016.	
1 = no chlorosis; 10 plants losing leaves due to necrotic spots on leaves.	
Trial not harvested due to high Iron Chlorosis incidence and added drought conditions.	

Table 15. 2016 Iron Chlorosis Ratings	
Black Belt REC	
Sumter silty clay - BBS	Group VI & VII trial
	Iron chlorosis Rating
Variety	Average rating (3 reps)
Group VI	
Asgrow AG 69X6	8.3
Credenz CZ 6060 RY	7.3
Progeny P 6710RY	7.3
Progeny P 6315LL	7.0
Credenz CZ 6109 LL	4.3
Group VII	
Asgrow AG 75X6	8.0
Credenz CZ 7132LL	7.8
Progeny P 7310RY	7.5
Bayer HBK RY7523	6.3
Credenz CZ 7007LL	5.5
AGS 738 RR	4.5
Ratings made on July 20, 2016.	
1 = no chlorosis; 10 plants losing leaves due to necrotic spots on leaves.	
Trial not harvested due to high Iron Chlorosis incidence and added drought conditions.	

Table 16. Performance Soybean Cultivars in Central Alabama, 2016

Black Belt REC - Marion Junction, AL		
Vaiden clay - Maturity Groups IV & V		
Cultivar		Yield
Group IV		(bu/acre)
AGS GS 4915R2		41
Mycogen 5N490R2		37
GoSoy 4913LL		37
Credenz CZ 4540LL		37
GoSoy Ireane		33
Credenz CZ 4656RY		31
Dyna-Gro S49XS76		30
Credenz CZ 4818LL		30
Credenz CZ 4898RY		30
Credenz CZ 4748LL		29
HBK LL 4953		29
Credenz CZ 4590RY		28
Credenz CZ 4959RY		27
Group V		
Credenz CZ 5445LL		54
GoSoy 5115 LL		49
UA 5414 RR		41
Dyna-Gro S52RS86		41
Progeny P 5752RY		41
Mycogen 5N522R2		41
Mycogen 5N550R2		40
Progeny P 5555RY		39
Dyna-Gro S56RY84		39
UA 5014C		36
UA 5814 HP		36
Credenz CZ 5150LL		36
Credenz CZ 5225LL		35
R10-230		34
Terral REV 56R63		34
Asgrow AG 54X6		33
Credenz CZ 5515LL		33
Credenz CZ 5147LL		32
UA 5612 C		31
Credenz CZ 5242LL		31
Asgrow AG 53X6		30
Terral REV 52A94		29
Progeny P 5414LLS		28
R10-197RY		27
AGS 568RR		26
GoSoy Leland		26
Terral REV 57R21		26
R09-430		25
Credenz CZ 5375RY		24
R07-6614RR		21
Osage		21
UA 5213 C		15
Trial mean		33
LSD (0.1)		14
CV (%)		32
Pr>F		0.0575

Table 17. Performance of Soybean Cultivars in Central Alabama, 2016

Black Belt REC - Marion Junction, AL		
Vaiden clay - Maturity Groups VI & VII		
Cultivars		Yield
Group VI		(bu/acre)
Credenz CZ 6109 LL		38
Credenz CZ 6060 RY		25
Progeny P 6710RY		23
Asgrow AG 69X6		21
Progeny P 6315LL		18
Group VII		
Progeny P 7310RY		29
Credenz CZ 7007LL		23
Asgrow AG 75X6		22
AGS 738 RR		21
Bayer HBK RY7523		20
Credenz CZ 7132LL		20
Trial mean		24
LSD (0.1)		8
CV (%)		24
Pr>F		0.0266

Table 18. Performance of Soybean Cultivars in South Alabama, 2016

Brewton Agricultural Research Unit - Brewton, AL		
Regular - Maturity Groups IV & V		
Cultivar		Yield
Group IV		(bu/acre)
GoSoy Ireane		45
GoSoy 4913LL		34
Mycogen 5N490R2		29
AGS GS 4915R2		23
Group V		
R09-430		54
Progeny P 5752RY		53
GoSoy Leland		52
Progeny P 5555RY		50
UA 5414 RR		50
Terral REV 52A94		50
UA 5213 C		50
AGS 568RR		50
Mycogen 5N550R2		49
Asgrow AG 53X6		48
Mycogen 5N522R2		48
Terral REV 56R63		47
Credenz CZ 5515LL		46
Progeny P 5414LLS		43
R07-6614RR		43
R10-197RY		43
UA 5014C		41
UA 5612 C		38
Progeny P 5226RYS		38
UA 5814 HP		37
Credenz CZ 5375RY		36
GoSoy 5115 LL		36
Progeny P 5289RYS		35
R10-230		31
Osage		29
Asgrow AG 54X6		25
Trial mean		42
LSD (0.1)		7
CV (%)		12
Pr>F		0.0001

Table 19. Performance of Soybean Cultivars in South Alabama, 2016

Brewton Agricultural Research Unit - Brewton, AL		
Regular - Maturity Groups VI, VII & VIII		
Cultivar		Yield
Group VI		(bu/acre)
Progeny P 6315LL		50
Asgrow AG 69X6		48
Progeny P 6710RY		46
Credenz CZ 6109 LL		43
Credenz CZ 6060 RY		41
Group VII		
AGS 738 RR		59
Progeny P 7310RY		55
Asgrow AG 75X6		50
Bayer HBK RY7523		48
Credenz CZ 7007LL		47
Credenz CZ 7132LL		32
Group VIII		
AGS 828 RR		50
Trial mean		47
LSD (0.1)		4
CV (%)		6
Pr>F		0.0001

Table 20. Performance of Soybean Cultivars in South Alabama, 2016

Gulf Coast REC - Fairhope, AL		
Regular - Maturity Groups IV & V		
Cultivar		Yield
Group IV		(bu/acre)
AGS GS 4915R2		68
Mycogen 5N490R2		67
GoSoy 4913LL		60
GoSoy Ireane		60
Group V		
Mycogen 5N550R2		72
R10-230		72
Progeny P 5555RY		72
Mycogen 5N522R2		71
R10-197RY		69
R09-430		68
UA 5612 C		68
UA 5213 C		68
Osage		67
Terral REV 57R21		66
Progeny P 5414LLS		66
Credenz CZ 5375RY		66
GoSoy 5115 LL		66
UA 5414 RR		65
UA 5014C		65
Asgrow AG 54X6		64
Credenz CZ 5515LL		64
UA 5814 HP		63
Progeny P 5752RY		63
GoSoy Leland		63
AGS 568RR		59
R07-6614RR		59
Asgrow AG 53X6		57
Terral REV 56R63		51
Trial mean		65
LSD (0.1)		7
CV (%)		10
Pr>F		0.0012

Table 21. Performance of Soybean Cultivars in South Alabama, 2016

Gulf Coast REC - Fairhope, AL		
Regular - Maturity Groups VI, VII & VIII		
Cultivar		Yield
Group VI		(bu/acre)
Asgrow AG 69X6		71
Credenz CZ 6109 LL		70
Progeny P 6315LL		65
Progeny P 6710RY		65
Credenz CZ 6060 RY		64
Group VII		
Progeny P 7310RY		74
Asgrow AG 75X6		67
Credenz CZ 7007LL		67
Bayer HBK RY7523		64
AGS 738 RR		64
Credenz CZ 7132LL		63
Group VIII		
AGS 828 RR		58
Trial mean		66
LSD (0.1)		5
CV (%)		6
Pr>F		0.0002

Table 22. Cultural Practices for Soybean Variety Tests in 2016

Location	Type of test	Date planted	Row width - inches -	Herbicide used
Belle Mina	Group IV	May 3	30	Classic
	Group Late IV	May 17	30	Classic
	Group Early V	May 17	30	Classic
	Group Late V	May 17	30	Classic
Crossville	Group IV	April 29	30	Select Max, First Rate
	Group Late IV	May 24	30	Roundup*, First Rate
	Group Early V	May 24	30	Roundup*, First Rate
	Group Late V	May 24	30	Select Max, First Rate
Tallassee	Group IV	May 4	30	Select Max
Shorter	Group Late IV	May 24	36	Select Max
	Group Early V	May 24	36	Select Max
	Group Late V	May 24	36	Select Max
Marion Junction	Group IV-V (Sumter)	May 23	36	Section, Resource
	Group VI-VII (Sumter)	May 23	36	Section, Resource
	Group IV-V (Vaiden)	May 23	36	Section, Resource
	Group VI-VII (Vaiden)	May 23	36	Section, Resource
Brewton	Group IV-V	May 25	36	Blazer Ultra, Reflex
	Group VI-VII	May 25	36	Blazer Ultra, Reflex
Fairhope	Group IV-V	May 26	38	First Rate, Reflex
	Group VI-VII	June 9	38	First Rate, Reflex

* Roundup was inadvertently applied to trial which killed many varieties.

Table 24. Entries and Sources for 2016

Source	Entry
AGSouth Genetics Albany, Georgia	AGS brand varieties
Bayer CropScience Tifton, Georgia	Credez/HBK brand varieties
Crop Production Services Kinston, Alabama	Dyna-Gro brand varieties
Monsanto St. Louis, Missouri	Asgrow AG brand varieties
Mycogen Seed Greenville, Mississippi	Mycogen brand varieties
Progeny Ag Products Wynne, Arkansas	Progeny brand varieties
Stratton Seed Stuttgart, Arkansas	GoSoy brand varieties, AGS GS 4915R2
Terral Seed, Inc. Lake Providence, Louisiana	Terral REV brand varieties
UniSouth Genetics, Inc. Dickson, Tennessee	USG brand varieties, Ellis
University of Arkansas Fayetteville, Arkansas	UA 5014C, UA 5612, UA 5213C, UA 5414RR, UA 5814HP, Osage, R10-230*, R07-6614RR*, R09-430*, R10-197RY*
* Experimental lines	

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