

MISSISSIPPI SOYBEAN PROMOTION BOARD

SOYBEAN VARIETIES' DISEASE RATINGS—2015

Dr. Tom Allen, Extension Plant Pathologist at DREC-Stoneville, has posted ratings for various diseases that affect soybean varieties that were grown in the 2015 Mississippi Soybean Variety Trials.

Varieties were rated for indicated diseases (except stem canker) at the locations indicated in the below tables. Ratings were based on a scale of 0 to 9: for frogeye leaf spot (FLS), 0 = no disease present and 9 = severe disease symptoms; for Cercospora leaf blight (CLB), 0 = no disease, 5 = disease present on leaves, and 9 = purple pods, petioles and stems; for Septoria brown spot (SBS) and target spot (TS), 0 = no disease, 1 = disease present on lowest leaves, 5 = disease present in middle of the canopy, and 9 = disease present in the upper canopy with severe defoliation. Green stem (GS), where present, was rated on a 0-100% scale and indicates percentage of green stem malady on a whole plot basis.

Ratings are based on each variety's reaction to natural infestations of each disease (except stem canker) at each location; i.e., plants were not inoculated with disease pathogens. Thus, the ratings do not presume to indicate a variety's response to a known yield-reducing level of the pathogen. Rather, the ratings are to be used as an indicator of each variety's reaction to the level of the pathogen present at each location in 2015. Stem canker ratings were made where plants had been inoculated with the pathogen.

At the Longwood location near Leland, MS, an accidental application of Quadris Top at 8 fl. oz./acre resulted in varying levels of injury (phytotoxicity) among the cultivars. Ratings of phytotoxicity occurring on the MG IV early and late entries were made using a 0-9 scale, where 0 = no observable injury symptoms, 1 = mild injury symptoms, 5 = moderate injury symptoms, and 9 = severe injury symptoms.

Statistics

LSD (least significant difference). These values are used as a statistical tool to determine significant differences among variety ratings. The average ratings of any two varieties being compared must differ by more than the LSD value to be considered different in a particular test.

Put another way, the LSD is the smallest difference between ratings of two varieties that can be attributed to an actual difference in the varieties' disease susceptibility in a particular trial. Thus, a difference in the ratings of two varieties that exceeds the LSD is attributable to a difference in the disease susceptibility of the two varieties. Even though the average ratings of two varieties may be numerically different, the two disease ratings are not considered significantly different if that difference does not exceed the test LSD.

Probability level (*p* value). A disease rating difference between two varieties that exceeds the LSD value will be expected to do so 9 times out of 10 at the 10% (.10) level of probability, 19 times out of 20 at the 5% (.05) level, 99 times out of 100 at the 1% (.01) level, etc. The smaller the probability level, the more stringent the statistical test.

CV (coefficient of variation) and/or R^2 (coefficient of determination). These values are a measure of the relative precision of a given trial and can be used to compare the relative precision of different trials. The CV is generally considered to be an estimate of the amount of unexplained variation in a given trial or test, while the R^2 is a measure of the amount of variation that is explained or accounted for in a given test. A CV below 10% (10% unexplained variation in a trial) is desired, while an R^2 above 0.90 (90% of the variation in a trial has been accounted for) is desired.

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Data are presented in tables in the following order.

Table 1	Reaction of MG III soybean cultivars to indicated diseases, NMREC, Verona, MS, 2015.
Tables 2-5	Reaction of MG IV soybean cultivars to indicated diseases, NMREC, Verona, MS, 2015.
Tables 6-8	Reaction of MG V soybean cultivars to indicated diseases, NMREC, Verona, MS, 2015.
Tables 9-12	Reaction of MG IV soybean cultivars to stem canker, Stoneville, MS, 2015.
Tables 13-16	Reaction of MG V soybean cultivars to stem canker, Stoneville, MS, 2015.
Table 17	Reaction of MG IV conventional soybean varieties to indicated diseases at indicated Mississippi locations, 2015.
Tables 18-23	Reaction of MG IV Early soybean cultivars to indicated diseases at indicated Mississippi locations, 2015
Tables 24-29	Reaction of MG IV Late soybean cultivars to indicated diseases at indicated Mississippi locations, 2015
Tables 30-34	Reaction of MG IV LibertyLink soybean cultivars to indicated diseases at indicated Mississippi locations, 2015
Table 35	Reaction of MG V conventional soybean cultivars to indicated diseases at indicated Mississippi locations, 2015.
Tables 36-40	Reaction of MG V Early soybean cultivars to indicated diseases at indicated Mississippi locations, 2015
Tables 41-45	Reaction of MG V Late soybean cultivars to indicated diseases at indicated Mississippi locations, 2015
Tables 46-50	Reaction of MG V LibertyLink soybean cultivars to indicated diseases at indicated Mississippi locations, 2015

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**Table 1. 2015 North MS Research and Extension Center, Verona, MS
Roundup Ready Maturity Group III Soybean Variety Trial**

Entry	Brand	Severity rating		
		CLB	FLS	Septoria
1	AG46321	4.8 f	0.8 j	2.3 g
2	Pioneer 31T11R	7.3 ab	2.8 ef	4.3 a-e
3	Dyna-Gro 32Y39	6.0 cd	1.3 ij	3.0 efg
4	Dyna-Gro 32Y39	5.8 de	1.8 ghi	3.8 b-f
5	Pioneer 31T11R	8.0 a	1.5 hij	3.8 b-f
6	Pioneer 31T11R	8.0 a	2.8 ef	3.3 c-g
7	Pioneer 31T77R	7.3 ab	1.8 ghi	5.0 ab
8	Pioneer 35T58R	5.8 de	1.8 ghi	4.0 a-e
9	Pioneer 39T67R	6.0 cd	3.3 cde	4.3 a-e
10	Pioneer 39T67R	4.8 f	3.8 bcd	3.0 efg
11	Pioneer 39T67R	4.8 f	4.3 ab	3.5 c-g
12	Pioneer 93Y84	4.8 f	3.3 cde	3.8 b-f
13	Pioneer 93Y05	6.8 bc	1.8 ghi	4.5 a-d
14	Pioneer 93Y92	5.3 def	1.3 ij	3.8 b-f
15	Pioneer 93Y92	5.8 de	1.0 ij	4.8 abc
16	NK S39-T3	4.8 f	4.0 bc	4.7 a-d
17	NK S39-U2	5.8 de	5.0 a	3.0 efg
18	Pioneer 36T86R	5.3 def	2.3 fgh	4.0 a-e
19	Mycogen 5N393R2	6.0 cd	1.8 ghi	3.8 b-f
20	Mycogen 5N342R2	6.0 cd	3.0 def	4.5 a-d
21	Pioneer 32T16R	7.3 ab	3.3 cde	5.3 a
22	AG 3735	5.3 def	1.8 ghi	3.5 c-g
23	AG3832	5.7 de	1.8 ghi	3.8 b-f
24	AG3934	6.0 cd	1.0 ij	3.0 efg
25	NK S55-Q31	6.0 cd	1.0 ij	2.5 fg
26	REV 38R10	5.0 ef	1.5 hij	4.3 a-e
27	REV 39A35	4.5 f	2.5 efg	3.3 c-g
CV		10.95	29.5	26.74
<i>p</i> -value		<0.0001	<0.0001	0.0064
LSD		0.91	0.94	1.45
St. Dev.		1.13	1.23	1.13

Ratings for CLB (Cercospora blight) and FLS (frogeye leaf spot) were based on a scale where 0 = no disease and 9 = severe disease.

Ratings for Septoria (Septoria brown spot) were based on a scale where 0 = no disease, 5 = disease in the middle of the canopy, and 9 = disease in the upper canopy with severe defoliation.

**Table 2. 2015 North MS Research and Extension Center, Verona, MS
Maturity Group IV Conventional/LibertyLink Soybean Variety Trial**

Entry	Brand	Variety	Severity rating			
			CLB	FLS	Septoria	Target spot
1	Credenz	CZ 4748 LL	6.0 ab	1.3 def	4.7 b-e	4.5 bcd
2	Credenz	CZ 4818 LL	5.3 c	0.5 fgh	4.0 def	4.0 c-f
3	Hornbeck	HBK 4563 LL	5.5 bc	2.5 bc	3.8 ef	3.5 efg
4	Hornbeck	HBK 4950 LL	5.0 c	1.0 d-g	3.8 ef	3.3 fg
5	Hornbeck	HBK 4953 LL	5.0 c	1.0 d-g	3.8 ef	3.3 fg
6	Credenz	CZ 3945 LL	6.5 a	1.0 d-g	6.0 a	6.0 a
7	Credenz	CZ 4105 LL	5.5 bc	0.8 e-h	5.5 ab	5.8 a
8	Delta Grow	DG 4567 LL	6.3 a	0.8 e-h	6.0 a	6.0 a
9	Delta Grow	DG 4781 LL	6.0 ab	1.0 d-g	4.0 def	3.8 d-g
10	Delta Grow	DG 4967 LL	5.3 c	0.8 e-h	4.3 c-f	3.8 d-g
11	Delta Grow	DG 4977 LL	5.0 c	1.0 d-g	5.0 bc	4.8 bc
12	Delta Grow	DG 4981 LL	5.3 c	1.8 cd	4.0 def	4.3 cde
13	Delta Grow	DG 4990 LL	5.0 c	0.0 h	4.8 b-e	4.8 bc
14	Dyna Gro	S49LL34	5.0 c	0.5 fgh	4.3 c-f	3.8 d-g
15	Progeny	P4814LLS	6.0 ab	0.0 h	3.5 f	3.0 g
16	Progeny	P4930LL	5.3 c	0.5 fgh	4.3 c-f	3.8 d-g
17	Stratton Seeds	Glider	6.0 ab	5.0 a	4.0 def	4.0 c-f
18	Go-Soy	4714 LL	5.5 bc	1.0 d-g	4.0 def	3.7 d-g
19	Go-Soy	483c	5.3 c	1.0 d-g	3.7 f	3.8 d-g
20	Stratton Seeds	Irene	6.0 ab	0.5 fgh	3.5 f	3.3 fg
21	REV	49L29	5.0 c	0.0 h	3.8 ef	3.5 efg
22	Univ of Arkansas	UA 5714 HP	6.0 ab	0.3 gh	3.8 ef	3.8 d-g
23	Univ of Missouri	S12-3791	5.5 bc	0.8 e-h	3.8 ef	3.8 d-g
24	HALO	4:80	6.3 a	1.5 def	5.0 bc	5.3 ab
25	HALO	4:95	5.0 c	4.5 a	3.8 ef	3.8 d-g
26	HALO	4:98	5.3 c	3.0 bc	5.0 bc	4.5 bcd
27	USG	Ellis	6.0 ab	0.5 fgh	3.8 ef	3.3 fg
CV			6.4	45.7	16.1	14.4
<i>p</i> -value			<0.0001	<0.0001	<0.0001	<0.0001
LSD			0.51	0.81	0.98	0.84
St. Dev.			0.57	1.35	0.94	0.98

Ratings for CLB (Cercospora blight) and FLS (frogeye leaf spot) were based on a scale where 0 = no disease and 9 = severe disease.

Ratings for Septoria (Septoria brown spot) and target spot were based on a scale where 0 = no disease, 5 = disease in the middle of the canopy, and 9 = disease in the upper canopy with severe defoliation.

**Table 3. 2015 North MS Research and Extension Center, Verona, MS
Roundup Ready Maturity Group IV Early Soybean Variety Trial**

Entry	Brand	Variety	Severity rating				Green stem (%)
			CLB	FLS	Septoria	Target spot	
1	Armor	46-R65	5.3 h	4.0 cd	5.0 a-d	5.0 a-d	67.5 bc
2	Asgrow	AG 4135	7.5 ab	3.0 def	5.5 ab	5.5 ab	.
3	Asgrow	AG 4232	6.8 cde	5.3 ab	4.5 cde	4.8 b-e	31.3 f
4	Asgrow	AG 4336	7.0 bcd	4.0 cd	5.0 a-d	4.8 b-e	4.8 i
5	Asgrow	AG 4533	6.3 efg	1.8 gh	4.3 de	4.0 ef	50.0 d
6	Asgrow	AG 4632	6.0 fgh	2.0 fgh	4.5 cde	5.0 a-d	80.0 abc
7	Credenz	CZ 4590RY	6.3 efg	3.8 cde	5.5 ab	5.3 abc	42.5 de
8	Croplan	R2C 451	6.0 fgh	1.5 h	4.3 de	5.3 abc	80.0 abc
9	Croplan	RC 4114	5.8 gh	5.3 ab	5.3 abc	5.3 abc	4.0 i
10	Delta Grow	DG 4670RR2Y	5.8 gh	1.5 h	5.0 a-d	5.0 a-d	41.3 def
11	Dyna Gro	S31RY45	6.3 efg	2.3 fgh	4.5 cde	4.8 b-e	66.3 c
12	Dyna Gro	S43RY95	7.0 bcd	4.0 cd	4.8 b-e	4.3 def	83.3 ab
13	Dyna Gro	S46RY85	6.3 efg	4.5 bc	4.3 de	4.3 def	88.8 a
14	Great Heart	GT-435 CR2	6.5 def	4.8 bc	4.8 b-e	4.8 b-e	8.3 hi
15	Great Heart	GT-469 CR2S	6.5 def	4.3 bc	5.0 a-d	4.8 b-e	78.8 abc
16	Mycogen	5N452R2	6.0 fgh	1.3 h	4.0 e	3.7 f	73.8 abc
17	Mycogen	SN404R2	7.8 a	2.0 fgh	5.0 a-d	4.5 c-f	.
18	Mycogen	SN433R2	6.8 cde	4.3 bc	5.7 a	5.7 a	11.3 gh
19	Progeny	P4211RY	7.3 abc	2.8 efg	4.5 cde	4.3 def	.
20	Progeny	P4214RY	6.5 def	6.0 a	5.3 abc	4.3 def	18.3 g
21	Progeny	P4613RYS	6.5 def	5.3 ab	5.0 a-d	4.5 c-f	73.8 abc
22	Steyer	4303R2	7.0 bcd	4.8 bc	5.0 a-d	4.8 b-e	4.0 i
23	Steyer	4602R2	6.0 fgh	4.8 bc	4.5 cde	4.3 def	87.5 a
24	NK Brand	NK S45-V8	6.3 efg	4.0 cd	4.5 cde	4.3 def	33.3 ef
25	USG	74F24RS	7.3 ab	4.3 bc	5.0 a-d	4.8 b-e	7.8 hi
CV			7.33	21.61	13.29	12.48	9.71
p-value			<0.0001	<0.0001	0.0432	0.0035	<0.0001
LSD			0.68	1.13	0.91	0.85	0.91
St. Dev.			0.70	1.59	0.72	0.72	31.99

Ratings for CLB (Cercospora blight) and FLS (frog-eye leaf spot) were based on a scale where 0 = no disease and 9 = severe disease.

Ratings for Septoria (Septoria brown spot) and target spot were based on a scale where 0 = no disease, 5 = disease in the middle of the canopy and 9 = disease in the upper canopy with severe defoliation.

**Table 4. 2015 North MS Research and Extension Center, Verona,
MS Roundup Ready Maturity Group IV Late Soybean Variety Trial**

Entry	Brand	Variety	Severity rating				Green stem (%)
			CLB	FLS	Septoria	Target	
1	Asgrow	AG 4835	5.0 c	3.3 gh	4.5 abc	5.0 a	20.0 b-h
2	Asgrow	AG 4934	5.0 c	5.5 abc	4.0 b-e	4.0 b-e	30.0 b-f
3	Asgrow	AG 5831	5.5 ab	0.3 k	2.7 g	2.3 g	15.0 c-h
4	Credenz	CZ 4959RY	5.0 c	3.0 gh	4.8 ab	4.8 ab	68.3 a
5	Hornbeck	HBK 4721RY	5.0 c	1.7 i	3.8 c-f	3.5 def	8.3 e-h
6	Croplan	R2C 4752S	5.3 bc	3.0 gh	3.8 c-f	4.3 a-d	6.5 e-h
7	Delta Grow	DG 4755	5.0 c	3.7 fg	4.3 a-d	4.3 a-d	30.0 b-g
8	Delta Grow	DG 4765RR2Y	5.0 c	3.8 fg	4.0 b-e	3.3 ef	48.8 ab
9	Delta Grow	DG 4775 RR2/STS	5.0 c	6.0 ab	4.3 a-d	4.3 a-d	5.5 fgh
10	Delta Grow	DG 4790RR2	5.0 c	1.0 ijk	3.8 c-f	3.3 ef	20.5 b-h
11	Delta Grow	DG 4825RR2Y	5.0 c	4.7 de	4.0 b-e	3.5 def	11.3 d-h
12	Delta Grow	DG 4880RR	5.0 c	0.5 k	4.0 b-e	3.3 ef	16.3 c-h
13	Delta Grow	DG 4935RR2	5.0 c	2.5 h	3.8 c-f	3.5 def	18.3 d-h
14	Delta Grow	DG 4970RR	5.3 bc	0.3 k	4.3 a-d	4.0 b-e	13.0 e-h
15	Delta Grow	DG 4995	5.8 a	0.5 k	3.3 efg	3.8 c-f	26.3 b-g
16	Dyna Gro	S37RY47	5.0 c	5.8 ab	5.0 a	4.3 a-d	20.8 c-h
17	Dyna Gro	S48RS53	5.0 c	3.3 gh	3.0 fg	3.5 def	32.0 b-g
18	Dyna Gro	S49RY25	5.0 c	4.3 ef	4.0 b-e	3.8 c-f	15.0 c-h
19	Great Heart	GT-476CR2	5.5 c	3.8 fg	4.0 b-e	4.3 a-d	48.7 abc
20	Great Heart	GT-477CR2	5.3 bc	0.3 k	3.8 c-f	3.3 ef	26.3 b-f
21	Great Heart	GT-482CR2S	5.3 bc	5.8 ab	4.0 b-e	4.5 abc	17.3 d-h
22	Mycogen	SN 479R2	5.0 c	3.0 gh	4.0 b-e	4.0 b-e	38.8 a-d
23	Mycogen	SN 490R2	5.0 c	6.3 a	4.5 abc	4.5 abc	15.0 c-h
24	Progeny	P4757RY	5.0 c	0.8 jk	4.0 b-e	3.8 c-f	19.3 b-h
25	Progeny	P4788RY	5.3 bc	0.7 k	4.5 abc	4.0 b-e	11.8 e-h
26	Progeny	P4850RYS	5.0 c	3.0 gh	4.5 abc	4.0 b-e	30.0 b-f
27	Progeny	P4900RY	5.0 c	4.8 cde	3.5 d-g	3.5 def	36.8 a-e
28	Go-Soy	4714 GTS	5.0 c	5.5 abc	3.5 d-g	3.8 c-f	30.3 b-f
29	Go-Soy	4914 GTS	5.0 c	0.3 k	3.3 efg	3.0 fg	28.8 b-f
30	Go-Soy	4915 R2	5.0 c	3.0 gh	4.0 b-e	3.8 c-f	21.0 b-h

**Table 5. 2015 North MS Research and Extension Center, Verona, MS
Roundup Ready Maturity Group IV Late Soybean Variety Trial**

Entry	Brand	Variety	Severity rating				Green stem (%)
			CLB	FLS	Septoria	Target	
31	Schillinger	SCH 495RC	5.0 c	0.5 k	3.8 c-f	3.0 fg	23.3 b-h
32	Steyor	4802R2	5.0 c	5.5 abc	3.8 c-f	3.8 c-f	9.0 e-h
33	NK Brand	S47-K5	5.0 c	0.8 jk	3.8 c-f	3.5 def	26.5 b-h
34	NK Brand	S48-D9	5.5 ab	0.3 k	4.8 ab	4.5 abc	12.8 d-h
35	REV	47R34	5.3 bc	0.8 jk	3.0 fg	3.0 fg	16.7 b-h
36	REV	47R53	5.5 ab	0.5 k	4.3 a-d	4.0 b-e	8.8 e-h
37	REV	48A46	5.0 c	0.8 jk	4.0 b-e	3.8 c-f	41.3 a-d
38	REV	49A14	5.0 c	4.7 de	3.8 c-f	3.8 c-f	40.0 a-d
39	REV	49A55	5.0 c	1.5 ij	4.3 a-d	3.8 c-f	15.8 d-h
40	REV	49A75	5.0 c	3.0 gh	3.8 c-f	3.5 def	2.5 h
41	REV	49R94	5.3 bc	1.0 ijk	4.0 b-e	3.3 ef	20.5 c-h
42	Univ of Missouri	S11-20337	5.3 bc	0.3 k	3.3 efg	3.3 ef	27.5 b-f
43	USG	74A74RS	5.0 c	5.7 ab	4.0 b-e	4.0 b-e	2.3 h
44	USG	74B83RS	5.0 c	5.3 bcd	3.5 d-g	3.8 c-f	9.3 e-h
45	USG	74K95RS	5.0 c	2.8 h	4.0 b-e	4.0 b-e	25.0 b-f
46	USG	74D95	5.0 c	5.5 abc	4.8 ab	4.0 b-e	16.8 b-h
CV			5.4	18.8	15.4	16.9	48.5
<i>p</i> -value			0.0045	<0.0001	<0.0001	<0.0001	0.0251
LSD			0.39	0.76	0.85	0.9	2.9
St. Dev.			0.31	2.10	0.71	0.74	21.62

Ratings for CLB (Cercospora blight) and FLS (frogeye leaf spot) were based on a scale where 0 = no disease and 9 = severe disease.

Ratings for Septoria (Septoria brown spot) and target spot were based on a scale where 0 = no disease, 5 = disease in the middle of the canopy and 9 = disease in the upper canopy with severe defoliation.

**Table 6. 2015 North MS Research and Extension Center, Verona, MS
Maturity Group V Conventional/LibertyLink Soybean Variety Trial**

Entry	Brand	Variety	Severity rating			
			CLB	FLS	Septoria	Target spot
1	Armor	53-L55	6.0 c	0.5 c	4.3	3.8 b-e
2	Credenz	CZ 5147 LL	6.0 c	0.8 c	4.3	4.0 a-d
3	Credenz	CZ 5242 LL	6.0 c	0.8 c	5.0	4.3 abc
4	Credenz	CZ 5515 LL	6.3 bc	2.0 b	4.8	4.3 abc
5	Credenz	CZ 5150 LL	6.5 ab	0.3 c	4.8	4.5 ab
6	Credenz	CZ 5445 LL	6.0 c	0.3 c	3.8	3.0 e
7	Credenz	CZ 5727 LL	6.0 c	0.5 c	4.5	4.0 a-d
8	Delta Grow	DG 5367LL	6.0 c	4.3 a	4.8	4.5 ab
9	Delta Grow	DG 5461LL	6.3 bc	2.0 b	5.0	4.5 ab
10	Delta Grow	DG 5467LL	6.8 a	0.8 c	5.3	4.3 abc
11	Delta Grow	DG 5067	6.0 c	0.8 c	4.8	4.5 ab
12	Dyna Gro	S52LL66	6.0 c	0.5 c	4.8	4.5 ab
13	Dyna Gro	S53LS75	6.0 c	0.3 c	4.8	3.5 cde
14	Progeny	P5160LL	6.0 c	0.8 c	5.3	3.3 de
15	Progeny	P5460LL	6.3 bc	0.5 c	4.8	4.5 ab
16	GoSoy	5115 LL	6.0 c	0.5 c	4.5	4.0 a-d
17	GoSoy	5215 LL	6.0 c	0.8 c	5.0	4.3 abc
18	GoSoy	5515 LL	6.0 c	0.3 c	4.5	4.5 ab
19	Stratton Seed	Leland	6.0 c	0.8 c	4.5	4.0 a-d
20	REV	55L95	6.0 c	0.3 c	5.0	4.8 a
21	Univ of Arkansas	Osage	6.0 c	1.8 b	4.3	4.3 abc
22	Univ of Arkansas	UA 5612	6.0 c	0.8 c	4.3	4.3 abc
23	Univ of Missouri	S11-16653	6.0 c	0.0 c	4.5	4.5 ab
24	Univ of Missouri	S11-17025	6.0 c	0.0 c	4.8	4.0 a-d
25	Univ of Missouri	S11-20124	6.0 c	0.8 c	4.3	4.0 a-d
26	HALO	5:26	6.0 c	0.5 c	4.8	4.0 a-d
27	USG	USG 75G24L	6.0 c	0.8 c	4.5	3.5 cde
CV			3.62	79.59	14.76	15.72
<i>p</i> -value			0.0004	<0.0001	0.4753	0.0364
LSD			0.31	0.87	0.97	0.91
St. Dev.			0.26	0.94	0.68	0.71

Ratings for CLB (*Cercospora* blight) and FLS (frog-eye leaf spot) were based on a scale where 0 = no disease and 9 = severe disease.

Ratings for Septoria (*Septoria* brown spot) and target spot were based on a scale where 0 = no disease, 5 = disease in the middle of the canopy and 9 = disease in the upper canopy with severe defoliation.

**Table 7. 2015 North MS Research and Extension Center, Verona,
MS Roundup Ready Maturity Group V Early Soybean Variety Trial**

Entry	Brand	Variety	Severity rating			
			CLB	FLS	Septoria	Target spot
1	Armor	50-R21	6.5 bc	5.3 cde	5.5 ab	3.3 de
2	Armor	51-R50	6.5 bc	0.3 ij	5.0 a-d	4.0 a-d
3	Asgrow	AG 5233	6.8 ab	5.8 bc	5.3 abc	4.0 a-d
4	Asgrow	AG 5332	6.0 d	4.5 ef	4.8 b-e	4.3 abc
5	Asgrow	AG 5335	7.0 a	5.0 c-f	5.3 abc	4.5 ab
6	Asgrow	AG 5533	6.0 d	0.8 hij	5.0 a-d	4.8 a
7	Asgrow	AG 5535	6.0 d	0.3 ij	4.5 c-f	3.5 cde
8	Croplan	R2C 5081	7.0 a	0.5 hij	5.5 ab	4.5 ab
9	Delta Grow	DG 5170 RR2	6.3 cd	6.5 ab	4.3 def	3.8 b-e
10	Delta Grow	DG 5230 RR2	6.3 cd	0.3 ij	5.0 a-d	4.5 ab
11	Delta Grow	DG 5575 RR2	6.0 d	0.8 hij	3.8 f	3.3 de
12	Delta Grow	DG 5625 RR2	6.0 d	2.7 g	4.0 ef	3.0 e
13	Dyna Gro	32RY55	6.0 d	0.0 j	5.0 a-d	4.3 abc
14	Dyna Gro	S52RY75	6.3 cd	0.0 j	5.5 ab	4.0 a-d
15	Dyna Gro	S56RY84	6.3 cd	1.0 hi	5.0 a-d	3.8 b-e
16	Great Heart	GT-516 CR2	6.3 cd	4.3 f	5.0 a-d	3.5 cde
17	Mycogen	5N501R2	6.5 bc	4.3 f	5.5 ab	4.0 a-d
18	Mycogen	5N522R2	6.0 d	0.3 ij	5.3 abc	3.8 b-e
19	Mycogen	5N550R2	6.3 cd	1.0 hi	4.8 b-e	4.3 abc
20	Progeny	P5213RY	6.8 ab	5.3 cde	4.8 b-e	4.3 abc
21	Progeny	P5226RYS	6.5 bc	6.8 a	4.5 c-f	4.0 a-d
22	Progeny	P5333RY	6.3 cd	3.0 g	5.0 a-d	3.7 cde
23	Progeny	P5555RY	6.0 d	0.8 hij	4.5 c-f	4.3 abc
24	Progeny	P5610RY	6.0 d	0.0 j	4.8 b-e	4.5 ab
25	Progeny	P5752RY	6.0 d	0.0 j	4.3 def	4.0 a-d
26	Schillinger	SCH 5220RC	6.3 cd	5.0 c-f	4.0 ef	3.3 de
27	NK Brand	NK S50-J7	7.0 a	1.3 h	4.0 ef	3.8 b-e
28	NK Brand	NK S52-Y2	6.0 d	6.5 ab	4.5 c-f	4.0 a-d
29	NK Brand	NK S55-Q3	6.0 d	0.0 j	4.3 def	4.3 abc
30	REV	52A94	6.8 ab	0.8 hij	5.0 a-d	4.5 ab
31	REV	54R84	6.3 cd	4.3 f	4.8 b-e	4.3 abc
32	REV	55R53	6.0 d	5.5 cd	4.3 def	3.8 b-e
33	REV	56R63	6.3 cd	1.0 hi	5.0 a-d	4.5 ab
34	Univ of Arkansas	UA 5414RR	6.0 d	4.8 def	5.3 abc	3.5 cde
35	Univ of Missouri	S11-20195	6.0 d	4.5 ef	5.0 a-d	3.3 de
36	USG	75J45R	6.3 cd	0.5 hij	5.7 a	3.8 b-e
CV			5.21	24.6	12.4	13.9
p-value			<0.0001	<0.0001	<0.0001	0.0003
LSD			0.46	0.89	0.85	0.79
St. Dev.			0.45	2.44	0.76	0.68

Ratings for CLB (Cercospora blight) and FLS (frogeye leaf spot) were based on a scale where 0 = no disease and 9 = severe disease.

Ratings for Septoria (Septoria brown spot) and target spot were based on a scale whereby 0 = no disease, 5 = disease in the middle of the canopy and 9 = disease in the upper canopy with severe defoliation.

**Table 8. 2015 North MS Research and Extension Center, Verona,
MS Roundup Ready Maturity Group V Late Soybean Variety Trial**

Entry	Brand	Variety	Severity rating			
			CLB	FLS	Septoria	Target spot
1	Dyna Gro	39RY57	6.0	1.3 a	4.8	4.5
2	Dyna Gro	S57R26	6.0	0.0 b	4.5	4.0
3	NK Brand	S58-24	6.0	0.3 b	4.0	4.0
4	NK Brand	S59-V9	6.0	0.0 b	4.5	4.5
5	REV	57R21	6.3	1.3 a	4.5	4.0
6	USG	75B75R	6.0	0.0 b	4.5	4.3
CV			3.38	82.12	14.91	8.59
<i>p</i> -value			0.4509	0.0001	0.7382	0.163
LSD			0.31	0.57	1.0	0.54
St. Dev.			0.20	0.66	0.59	0.41

Ratings for CLB (*Cercospora blight*) and FLS (*frogeye leaf spot*) were based on a scale where 0 = no disease and 9 = severe disease.

Ratings for Septoria (*Septoria brown spot*) and target spot were based on a scale where 0 = no disease, 5 = disease in the middle of the canopy and 9 = disease in the upper canopy with severe defoliation.

2015 SOYBEAN VARIETY TRIAL STEM CANKER RATINGS

All entries in the 2015 Mississippi State University Official Variety Trials (OVT) were evaluated for their reaction to the stem canker fungus. Trials consisted of single rows of each variety planted in 10-foot-long plots that were replicated four times. Within each row, 8 plants were each inoculated with a single toothpick that contained the fungus that causes stem canker. Plants were inoculated approximately 8 weeks after planting. Evaluations of stem canker reaction of each variety were conducted between R6 and R6.5 by assessing the presence and severity of a canker on the stem of each inoculated plant.

Ratings of each variety for stem canker were conducted using a modified 0-9 scale. Data in each stem canker ratings table are the average rating of the inoculated plants of each variety in a single plot averaged across the four replicates. Also included is a designation of each variety's reaction to stem canker, where R=resistant, MR=moderately resistant, MS=moderately susceptible, and S=susceptible. Keep in mind that soybean varieties' reaction to stem canker tend to be more obvious when the environment is conducive for disease development. Therefore, over time and because years will be different in their conduciveness to development of stem canker, it is possible that stem canker designations for a given variety can change across years.

Table 9. Reaction of Maturity Group IV conventional soybean cultivars to stem canker, 2015.

Cultivar	Stem canker rating^{1,2}	Cultivar designation³
J77-339 (susceptible check)	6.75 a	MS
Go Soy 5	0.85 b	R
Go Soy Glider	0.44 b	R
Go Soy Irene	0.03 b	R
Univ. of Arkansas R09-1589	7.94 a	S
Univ. of Arkansas UA 5014C (R05-3239)	0.00 b	R
Univ. of Arkansas UA 5714HP (R09-3789)	0.00 b	R
Univ. of Missouri S12-3791	5.72 a	MS
USG Ellis	0.00 b	R
LSD (0.05)	2.8	-
CV (%)	80.9	-
P-value for F-statistic	<0.0001	-

¹Stem canker reaction: 8 plants per plot were inoculated with infested toothpicks. Ratings are individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average of the eight plants across four replicates. Where a lesion did not appear, a rating of 0 (resistant) was assigned. Ratings were assigned based on the presence of a lesion where a reaction that produced a visible lesion that did not expand up the length of the stem was assigned a 1. Dead plants with lesions that extended up most of the plant's stem received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation is as follows: 1 = Resistant; 3 = Moderately Resistant; 5 = Moderately Susceptible; and 7 = Susceptible.

Table 10. Reaction of Maturity Group IV early soybean cultivars to stem canker, 2015.

Cultivar	Stem Canker rating^{1,2}	Cultivar designation³	Cultivar	Stem Canker rating^{1,2}	Cultivar designation³
Dyna-Gro 39RY43 (susceptible check)	5.60 a	MS	Dyna-Gro S43RY95	3.03 a-g	MR
Armor 46-R65	0.97 d-g	R	Dyna-Gro S46RY85	1.66 c-g	R
Armor AR4305	5.16 ab	MS	Great Heart Seed GT-435CR2	1.03 d-g	R
Armor AR4504	0.97 d-g	R	Great Heart Seed GT-469CR2S	1.66 c-g	R
Armor AR4615	0.19 fg	R	MorSoy Extra 46X95	0.47 fg	R
Asgrow AG4135	4.25 a-d	MR	Mycogen 5N404R2	3.44 a-f	MR
Asgrow AG4232	4.35 a-d	MR	Mycogen 5N433R2	0.00 g	R
Asgrow AG4336	4.35 a-d	MR	Mycogen 5N452R2	1.63 c-g	R
Asgrow AG4433	1.06 d-g	R	NK S45-V8	1.03 d-g	R
Asgrow AG4533	0.16 fg	R	Pioneer 46T21R	0.03 fg	R
Asgrow AG4632	0.03 fg	R	Pioneer 93Y92	5.41 ab	MS
Credenz CZ 4181 RY	4.82 abc	MR	Progeny Ag P 4211RY	3.22 a-g	MR
Credenz CZ 4590 RY	0.57 efg	R	Progeny Ag P 4214RY	3.85 a-e	MR
Croplan R2C4114	1.41 c-g	R	Progeny Ag P 4613RYS	0.63 fg	R
Croplan R2C4541	1.46 c-g	R	Steyer 4303R2	0.63 fg	R
Delta Grow DG 4670R2Y	0.22 fg	R	Steyer 4602R2	1.53 c-g	R
Dyna-Gro 31RY45	0.00 g	R	USG 74F24RS	2.16 b-g	R
LSD (0.05)	-	-		3.4	-
CV (%)	-	-		123.1	-
P-value for F-statistic	-	-		0.0016	-

¹Stem canker reaction: 8 plants per plot were inoculated with infested toothpicks. Ratings are individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average of the eight plants across four replicates. Where a lesion did not appear, a rating of 0 (resistant) was assigned. Ratings were assigned based on the presence of a lesion where a reaction that produced a visible lesion that did not expand up the length of the stem was assigned a 1. Dead plants with lesions that extended up most of the plant's stem received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation is as follows: 1 = Resistant; 3 = Moderately Resistant; 5 = Moderately Susceptible; and 7 = Susceptible.

Table 11. Reaction of Maturity Group IV late soybean cultivars to stem canker, 2015.

Cultivar	Stem Canker rating^{1,2}	Cultivar designation³	Cultivar	Stem Canker rating^{1,2}	Cultivar designation³
Dyna-Gro 39RY43 (susceptible check)	4.25 b	MR	MorSoy Extra 49X85	0.28 gh	R
Armor 49-R56	1.75 d-h	R	Mycogen 5N479R2	0.85 gh	R
Armor 49X	0.03 h	R	Mycogen 5N490R2(MYCX54480NR2)	0.72 gh	R
Armor AR4705	2.16 c-g	R	NK S47-K5	1.25 fgh	R
Armor AR4904	0.57 gh	R	NK S48-D9	0.50 gh	R
Asgrow AG4835	1.28 fgh	R	Pioneer 49T80R	0.88 gh	R
Asgrow AG4934	0.25 gh	R	Pioneer 94Y70	2.03 c-h	R
Credenz CZ 4959 RY	0.03 h	R	Pioneer 94Y82	4.72 ab	MR
Credenz RY4721	0.13 h	R	Pioneer P47T36R	1.57 d-h	R
Croplan R2C4752S	0.32 gh	R	Pioneer P47T89R	0.94 gh	R
Delta Grow DG 4755RR2	1.28 fgh	R	Pioneer P48T53R	0.75 gh	R
Delta Grow DG 4765RR2/STS	0.60 gh	R	Pioneer P49T97R	0.75 gh	R
Delta Grow DG 4775RR2/STS	0.56 gh	R	Progeny Ag P 4757RY	0.35 gh	R
Delta Grow DG 4790 RR2	3.19 b-f	MR	Progeny Ag P 4788RY	1.69 d-h	R
Delta Grow DG 4825RR2/STS	0.25 gh	R	Progeny Ag P 4850RYS	0.63 gh	R
Delta Grow DG 4880RR	0.13 h	R	Progeny Ag P 4900RY	1.16 gh	R
Delta Grow DG 4935 RR2/STS	1.44 e-h	R	Schillinger 495.RC	0.38 gh	R
Delta Grow DG 4970RR	0.31 gh	R	Steyer 4802R2	0.35 gh	R
Delta Grow DG 4995 RR	4.04 bc	MR	Terral REV® 47R34™	1.85 d-h	R
Dyna-Gro 37RY47	6.69 a	MS	Terral REV® 47R53™	3.50 bcd	MR
Dyna-Gro S48RS53	0.38 gh	R	Terral REV® 48A46™	0.19 gh	R
Dyna-Gro S49RY25	0.38 gh	R	Terral REV® 49A14	0.91 gh	R
Go Soy 4714GTS(MPG 4714)	1.44 e-h	R	Terral REV® 49A55™	1.63 d-h	R
Go Soy 4914GTS	4.32 b	MR	Terral REV® 49A75™	0.60 gh	R
Go Soy 4915R2	0.56 gh	R	Terral REV® 49R94™	0.57 gh	R
Great Heart Seed GT-476CR2	3.44 b-e	MR	Univ. of Missouri S11-20337	3.91 bc	MR
Great Heart Seed GT-477CR2	0.94 gh	R	USG 74B83RS(74B83R)	0.38 gh	R
Great Heart Seed GT-482CR2S	0.69 gh	R	USG 74D95RS	0.97 gh	R
Hornbeck HBK RY4721	0.35 gh	R	USG 74K95RS	1.07 gh	R
MorSoy Extra 47X12	0.47 gh	R	USG A74A74RS	0.71 gh	R
MorSoy Extra 48X02	0.16 gh	R	-	-	-
LSD (0.05)	-	-		2.0	-
CV (%)	-	-		112.1	-
P-value for F-statistic	-	-		<0.0001	-

¹Stem canker reaction: 8 plants per plot were inoculated with infested toothpicks. Ratings are individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average of the eight plants across four replicates. Where a lesion did not appear, a rating of 0 (resistant) was assigned. Ratings were assigned based on the presence of a lesion where a reaction that produced a visible lesion that did not expand up the length of the stem was assigned a 1. Dead plants with lesions that extended up most of the plant's stem received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation is as follows: 1 = Resistant; 3 = Moderately Resistant; 5 = Moderately Susceptible; and 7 = Susceptible.

Table 12. Reaction of MG IV LibertyLink soybean cultivars to stem cancer, 2015.

Cultivar	Stem Canker rating^{1,2}	Cultivar designation³	Cultivar	Stem Canker rating^{1,2}	Cultivar designation³
LL Check	0.00 c	R	Delta Grow DG 4990 LL	0.60 bc	R
Armor 4.4	1.16 ab	R	Dyna-Gro S49LL34	0.00 c	R
Armor 47X5L	0.28 c	R	Go Soy 4714 LL	0.00 c	R
Armor 49X5L	0.03 c	R	Halo 4.8	0.28 c	R
Credenz CZ 3945 LL	0.23 c	R	Halo 4.95	0.00 c	R
Credenz CZ 4105 LL	0.00 c	R	Halo 4.98	0.00 c	R
Credenz CZ 4540 LL	0.00 c	R	Hornbeck HBK LL4653	0.22 c	R
Credenz CZ 4748 LL	0.03 c	R	Hornbeck HBK LL4950	0.00 c	R
Credenz CZ 4818 LL	0.00 c	R	Hornbeck HBK LL4953	0.00 c	R
Credenz CZ 4953 LL	0.00 c	R	Progeny Ag P 4560 LL	0.10 c	R
Delta Grow DG 4567 LL	1.81 a	R	Progeny Ag P 4814 LLS	0.00 c	R
Delta Grow DG 4781 LL	0.35 bc	R	Progeny Ag P 4928 LL	0.06 c	R
Delta Grow DG 4967 LL	0.13 c	R	Progeny Ag P 4930 LL	0.30 c	R
Delta Grow DG 4977 LL/STS	0.00 c	R	Terral REV® 49L29™	0.03 c	R
Delta Grow DG 4981 LL/STS	0.00 c	R	-	-	-
LSD (0.05)	-	-		0.9	-
CV (%)	-	-		315.1	-
P-value for F-statistic	-	-		0.0336	-

¹Stem canker reaction: 8 plants per plot were inoculated with infested toothpicks. Ratings are individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average of the eight plants across four replicates. Where a lesion did not appear, a rating of 0 (resistant) was assigned. Ratings were assigned based on the presence of a lesion where a reaction that produced a visible lesion that did not expand up the length of the stem was assigned a 1. Dead plants with lesions that extended up most of the plant's stem received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation is as follows: 1 = Resistant; 3 = Moderately Resistant; 5 = Moderately Susceptible; and 7 = Susceptible.

Table 13. Reaction of Maturity Group V conventional soybean cultivars to stem canker, 2015.

Cultivar	Stem canker rating^{1,2}	Cultivar designation³
J77-339 (susceptible check)	5.72 ab	MS
Go Soy Leland	5.69 ab	MS
Univ. of Missouri S11-16653	0.00 d	R
Univ. of Missouri S11-17025	5.50 ab	MS
Univ. of Missouri S11-20124	6.85 a	MS
Univ. of Arkansas OSAGE	0.75 d	R
Univ. of Arkansas R09-430	3.91 bc	MR
Univ. of Arkansas R10-230	0.47 d	R
Univ. of Arkansas UA 5213C	0.13 d	R
Univ. of Arkansas UA 5612	1.47 d	R
USDA-ARS JTN-5110	1.85 cd	R
LSD (0.05)	2.1	-
CV (%)	49.6	-
P-value for F-statistic	<0.0001	-

¹Stem canker reaction: 8 plants per plot were inoculated with infested toothpicks. Ratings are individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average of the eight plants across four replicates. Where a lesion did not appear, a rating of 0 (resistant) was assigned. Ratings were assigned based on the presence of a lesion where a reaction that produced a visible lesion that did not expand up the length of the stem was assigned a 1. Dead plants with lesions that extended up most of the plant's stem received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation is as follows: 1 = Resistant; 3 = Moderately Resistant; 5 = Moderately Susceptible; and 7 = Susceptible.

Table 14. Reaction of Maturity Group V early soybean cultivars to stem canker, 2015.

Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³	Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Dyna-Gro 39RY43 (susceptible check)	3.35 b-j	MR	Mycogen 5N522R2(MYCX54522NR2)	1.91 f-l	R
Armor 5.01	0.85 i-l	R	Mycogen 5N550R2	0.03 l	R
Armor 50-R21(AX4500)	1.44 h-l	R	NK S50-J7	7.16 a	S
Armor 51-R50	0.28 l	R	NK S52-Y2	1.50 h-l	R
Armor AR5205	0.25 l	R	NK S55-Q3	0.16 l	R
Armor AR5605	1.06 h-l	R	Pioneer 95Y10	1.94 f-l	R
Armor AR5615	0.10 l	R	Pioneer P50T64R	2.53 d-l	R
Asgrow AG5233	1.19 h-l	R	Pioneer P5494R	3.07 c-k	MR
Asgrow AG5332	0.19 l	R	Progeny Ag P 5101RY	3.13 c-k	MR
Asgrow AG5335	1.82 f-l	R	Progeny Ag P 5213RY	5.63 abc	MS
Asgrow AG5533	2.25 d-l	R	Progeny Ag P 5226RYS	0.94 i-l	R
Asgrow AG5535	0.78 i-l	R	Progeny Ag P 5333RY	4.91 a-d	MR
Credenz 5225	1.35 h-l	R	Progeny Ag P 5555RY	0.38 kl	R
Credenz RY5421	0.69 i-l	R	Progeny Ag P 5610RY	4.35 b-g	MR
Croplan R2C5081	1.25 h-l	R	Schillinger 5220.RC	0.69 i-l	R
Delta Grow 5128 RR	5.92 ab	MS	Terral REV® 51A56	1.00 h-l	R
Delta Grow DG 5170 RR2/STS	0.22 l	R	Terral REV® 52A94™	4.53 a-f	MR
Delta Grow DG 5230RR2	1.44 h-l	R	Terral REV® 54R84™	1.91 f-l	R
Delta Grow DG 5575 RR2	1.97 f-l	R	Terral REV® 55R53™	1.60 g-l	R
Delta Grow DG 5625 RR2	3.78 b-h	MR	Terral REV® 56R63™	0.94 i-l	R
Dyna-Gro 32RY55	2.13 e-l	R	Univ. of Arkansas R10-197RY	1.03 h-l	R
Dyna-Gro S52RY75	1.85 f-l	R	Univ. of Arkansas R11-89RY	0.60 jkl	R
Dyna-Gro S56RY84	2.75 d-l	R	Univ. of Arkansas Ua 5414RR (R04-1268RR)	3.44 b-i	MR
Great Heart Seed GT-516CR2	1.85 f-l	R	Univ. of Missouri S11-20195	4.78 a-e	MR
MorSoy Extra 55X75	1.16 h-l	R	USG 75J45R	0.82 i-l	R
Mycogen 5N501R2(MYCX54490NR2)	1.00 h-l	R	-	-	-
LSD (0.05)	-	-	-	2.8	-
CV (%)	-	-	-	102.4	-
P-value for F-statistic	-	-	-	<0.0001	-

¹Stem canker reaction: 8 plants per plot were inoculated with infested toothpicks. Ratings are individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average of the eight plants across four replicates. Where a lesion did not appear, a rating of 0 (resistant) was assigned. Ratings were assigned based on the presence of a lesion where a reaction that produced a visible lesion that did not expand up the length of the stem was assigned a 1. Dead plants with lesions that extended up most of the plant's stem received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation is as follows: 1 = Resistant; 3 = Moderately Resistant; 5 = Moderately Susceptible; and 7 = Susceptible.

Table 15. Reaction of Maturity Group V late soybean cultivars to stem canker, 2015.

Cultivar	Stem canker rating^{1,2}	Cultivar designation³
Dyna-Gro 39RY43 (susceptible check)	2.35	R
Asgrow AG5831	1.94	R
Dyna-Gro 39RY57	2.91	R
Dyna-Gro S57RY26	3.97	MR
NK S58-Z4	3.07	MR
NK S59-V9	6.19	MS
Progeny Ag P 5752RY	1.97	R
REV® 57R21™	1.38	R
USG 75B75R	0.21	R
LSD (0.05)	5.1	-
CV (%)	126.6	-
P-value for F-statistic	0.5808	-

¹Stem canker reaction: 8 plants per plot were inoculated with infested toothpicks. Ratings are individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average of the eight plants across four replicates. Where a lesion did not appear, a rating of 0 (resistant) was assigned. Ratings were assigned based on the presence of a lesion where a reaction that produced a visible lesion that did not expand up the length of the stem was assigned a 1. Dead plants with lesions that extended up most of the plant's stem received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation is as follows: 1 = Resistant; 3 = Moderately Resistant; 5 = Moderately Susceptible; and 7 = Susceptible.

Table 16. Reaction of Maturity Group V LibertyLink soybean cultivars to stem canker, 2015.

Cultivar	Stem canker rating^{1,2}	Cultivar designation³	Cultivar	Stem canker rating^{1,2}	Cultivar designation³
LL Check	0.41	R	Delta Grow DG 5467 LL	0.41	R
Armor 5.01	0.00	R	Dyna-Gro S52LL66	0.38	R
Armor 51X5L	0.00	R	Dyna-Gro S55LS75	0.00	R
Armor 53-L55	0.00	R	Go Soy 5115LL	0.06	R
Credenz CZ 5147 LL	0.03	R	Go Soy 5215LL	0.06	R
Credenz CZ 5150 LL	0.00	R	Go Soy 5515LL	0.00	R
Credenz CZ 5225 LL	0.03	R	Halo 5.26	0.91	R
Credenz CZ 5242 LL	0.03	R	Progeny Ag P 5160 LL	0.03	R
Credenz CZ 5445 LL	0.03	R	Progeny Ag P 5414 LLS	0.10	R
Credenz CZ 5515 LL	0.03	R	Progeny Ag P 5460 LL	0.31	R
Credenz CZ 5727 LL	0.00	R	Progeny Ag P 5960 LL	0.00	R
Delta Grow DG 5067 LL	0.00	R	Progeny Ag P 6355 LL	0.06	R
Delta Grow DG 5367 LL	0.28	R	REV 55L95	0.28	R
Delta Grow DG 5461 LL	0.06	R	USG 75G24L	0.32	R
LSD (0.05)	-	-		0.6	-
CV (%)	-	-		329.5	-
P-value for F-statistic	-	-		0.6692	-

¹Stem canker reaction: 8 plants per plot were inoculated with infested toothpicks. Ratings are individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average of the eight plants across four replicates. Where a lesion did not appear, a rating of 0 (resistant) was assigned. Ratings were assigned based on the presence of a lesion where a reaction that produced a visible lesion that did not expand up the length of the stem was assigned a 1. Dead plants with lesions that extended up most of the plant's stem received a score of 9.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

³By using the Mean Disease Rating, a standardized designation is as follows: 1 = Resistant; 3 = Moderately Resistant; 5 = Moderately Susceptible; and 7 = Susceptible.

Table 17. Reaction of Maturity Group IV conventional soybean varieties to Cercospora leaf blight (CLB), frogeye leaf spot (FLS), Septoria brown spot (SBS), and green stem (GS) at Brooksville, MS–2015

Cultivar	CLB	FLS	SBS	GS
	Severity (0-9)			0-100%
Go Soy 483C (MPV 483C)	5.3	1.0	1.7	78 a
Go Soy Glider	6.0	1.0	3.0	52 b
Go Soy Irene	6.0	0.0	2.0	90 a
Univ. of Arkansas R09-1589	6.0	0.0	1.3	52 b
Univ. of Arkansas UA 5014C (R05-3239)	6.0	0.3	1.3	95 a
Univ. of Arkansas UA 5714HP (R09-3789)	6.0	0.0	1.7	---
Univ. of Missouri S12-3791	6.0	0.0	2.0	7 c
USG Ellis	6.0	0.3	2.0	92 a
LSD	0.7	0.8	1.6	20.5
CV	6.9	144.5	48.7	17.3
<i>p</i> value	0.4706	0.0718	0.4581	<0.0001

Table 18. Reaction of Maturity Group IV Early soybean cultivars to Cercospora leaf blight at indicated locations--2015

Cultivar	Cercospora leaf blight severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 46-R65	5.7 e	5.0 d	5.0 b	7.0 bc	6.0 cde	5.0 de	6.5	8.0 a	6.3 cde	6.1
Armor AR4305	6.7 bcd	5.0 d	5.0 b	7.3 b	6.3 bcd	5.7 bcd	7.0	7.0 c	7.3 ab	6.4
Armor AR4504	7.0 abc	5.0 d	5.0 b	7.0 bc	6.0 cde	5.0 de	7.0	8.0 a	6.3 cde	6.3
Armor AR4615	6.0 de	5.0 d	5.3 b	7.3 b	5.7 c-f	5.3 cde	7.0	8.0 a	7.0 bc	6.3
Asgrow AG4135	7.3 ab	7.7 a	5.7 b	7.0 bc	7.3 ab	6.3 ab	8.0	7.0 c	8.0 a	7.1
Asgrow AG4232	5.7 e	5.7 cd	5.7 b	8.0 a	5.0 ef	5.3 cde	7.0	7.0 c	7.0 bc	6.3
Asgrow AG4336	7.0 abc	5.7 bcd	5.0 b	6.7 cd	6.0 cde	5.7 bcd	8.0	7.0 c	8.0 a	6.6
Asgrow AG4533	6.3 cde	6.0 bcd	5.3 b	7.0 bc	5.3 def	5.3 cde	7.0	8.0 a	6.7 bcd	6.3
Asgrow AG4632	6.3 cde	6.0 d	5.3 b	7.0 bc	6.0 cde	4.7 e	6.0	8.0 a	7.0 bc	6.3
Credenz CZ 4590 RY	5.7 e	5.0 d	5.0 b	7.0 bc	4.7 f	5.0 de	6.5	7.3 bc	5.7 ef	5.8
Croplan R2C4114	6.3 cde	5.0 d	5.7 b	7.0 bc	5.7 c-f	5.7 bcd	7.0	7.3 bc	6.7 bcd	6.3
Croplan R2C4541	6.3 cde	5.0 d	5.3 b	7.0 bc	5.7 c-f	4.7 e	7.0	7.7 ab	6.3 cde	6.1
Delta Grow DG 4670R2Y	6.0 de	5.0 d	5.0 b	7.1 bc	5.0 ef	5.3 cde	5.5	8.0 a	5.7 ef	5.8
Dyna-Gro 31RY45	6.7 bcd	5.0 d	5.7 b	7.0 bc	6.3 bcd	5.3 cde	7.0	7.7 ab	6.3 cde	6.3
Dyna-Gro S43RY95	6.7 bcd	5.0 d	5.0 b	7.3 b	5.3 def	5.0 de	7.0	8.0 a	7.0 bc	6.3
Dyna-Gro S46RY85	7.0 abc	5.0 d	5.3 b	7.0 bc	5.3 def	5.7 bcd	7.0	7.7 ab	6.7 bc	6.3
Great Heart Seed GT-435CR2	6.7 bcd	6.0 bcd	5.0 b	7.0 bc	5.7 c-f	6.0 bc	8.0	7.0 c	7.3 ab	6.5
Great Heart Seed GT-469CR2S	6.3 cde	5.0 d	5.0 b	7.0 bc	5.0 ef	5.3 cde	7.0	7.3 bc	6.3 cde	6.0
MorSoy Extra 46X95	6.0 de	5.3 cd	5.0 b	7.0 bc	5.7 c-f	5.0 de	6.0	7.7 ab	6.3 cde	6.0
Mycogen 5N404R2	7.7 a	7.0 ab	7.7 a	7.0 bc	7.7 a	7.0 a	8.0	7.3 bc	8.0 a	7.5
Mycogen 5N433R2	7.0 abc	5.7 cd	5.0 b	7.0 bc	5.3 def	5.7 bcd	7.0	7.7 ab	5.3 f	6.2
Mycogen 5N452R2	6.7 bcd	5.0 d	5.0 b	8.0 a	5.3 def	5.0 de	7.0	8.0 a	6.7 bc	6.3
NK S45-V8	7.0 abc	5.7 cd	5.0 b	6.3 d	4.7 f	5.3 cde	7.0	7.3 bc	7.3 ab	6.2
Progeny Ag P 4211RY	5.7 e	5.0 d	5.3 b	8.0 a	5.0 ef	5.0 de	7.0	7.0 c	6.0 def	6.0
Progeny Ag P 4214RY	6.7 bcd	5.0 d	5.0 b	7.0 bc	6.0 cde	5.0 de	7.0	7.0 c	7.0 bc	6.2
Progeny Ag P 4613RYS	5.7 e	5.0 d	5.0 b	6.7 cd	5.3 def	5.0 de	6.0	7.7 ab	7.0 bc	5.9
Steyer 4303R2	7.0 abc	5.7 cd	5.0 b	7.0 bc	6.7 abc	5.7 bcd	7.0	8.0 a	8.0 a	6.7
Steyer 4602R2	6.3 cde	6.3 bc	5.0 b	8.0 a	5.7 c-f	5.0 de	7.0	8.0 a	6.7 bc	6.4
USG 74F24RS	7.0 abc	5.0 d	5.3 b	6.7 cd	6.0 cde	4.7 e	7.0	8.0 a	8.0 a	6.4
LSD	0.9	1.1	0.7	0.5	1.2	0.9	1.3	0.6	0.9	
CV	8.4	11.9	8.0	4.0	12.8	9.9	7.2	4.6	7.9	
p-value	0.0002	<0.0001	<0.0001	<0.0001	0.0007	0.0005	0.1437	<0.0001	<0.0001	

Table 19. Reaction of Maturity Group IV Early soybean cultivars to frogeye leaf spot at indicated locations--2015

Cultivar	Frogeye leaf spot severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 46-R65	1.0 b-e	2.0 b-f	3.3 efg	3.0 gh	1.0 de	1.0	2.5 a-e	5.0 ab	4.0 c-g	2.5
Armor AR4305	2.0 b	3.7 ab	5.3 a	7.7 a	3.0 ab	2.0	5.0 a	4.3 a-d	6.3 a	4.4
Armor AR4504	3.7 a	4.0 ab	4.7 abc	4.7 def	1.7 ce	0.7	3.0 a-d	5.3 a	5.7 abc	3.7
Armor AR4615	0.3 de	0.3 f	0.0 i	0.7 jk	0.7 e	0.3	0.0 e	2.0 gh	2.3 g-j	0.7
Asgrow AG4135	1.0 b-e	1.3 def	3.3 efg	2.0 hi	1.0 de	0.3	3.0 a-d	3.0 efg	2.7 f-i	2.0
Asgrow AG4232	1.3 bcd	3.3 abc	4.7 abc	5.7 bcd	3.7 a	0.3	2.0 b-e	4.3 a-d	5.7 abc	3.4
Asgrow AG4336	1.7 bcd	2.0 b-f	3.7 def	5.3 bcd	1.3 cde	0.3	3.0 a-d	2.7 fg	5.7 abc	2.9
Asgrow AG4533	0.0 e	1.7 c-f	0.0 i	0.3 k	0.7 e	0.0	0.5 de	1.0 h	1.3 hij	0.6
Asgrow AG4632	0.0 e	0.5 f	0.3 i	0.3 k	1.0 de	0.3	1.0 cde	1.0 h	1.3 hij	0.6
Credenz CZ 4590 RY	1.3 bcd	2.0 b-f	3.7 def	3.7 fg	1.7 ce	0.3	3.0 a-d	4.0 b-e	4.0 c-g	2.6
Croplan R2C4114	1.0 b-e	2.7 a-e	3.3 efg	5.7 bcd	1.3 cde	0.3	2.0 b-e	3.7 c-f	5.3 a-d	2.8
Croplan R2C4541	0.3 de	0.3 f	0.3 i	0.0 k	0.7 e	0.3	0.0 e	1.0 h	1.0 ij	0.4
Delta Grow DG 4670R2Y	0.0 e	0.3 f	0.3 i	1.0 jk	0.7 e	0.3	1.0 cde	1.0 h	0.7 j	0.6
Dyna-Gro 31RY45	0.0 e	1.0 ef	0.0 i	0.0 k	1.0 de	0.0	0.5 de	1.3 h	0.7 j	0.5
Dyna-Gro S43RY95	0.7 cde	1.7 c-f	3.3 a	4.7 def	1.7 ce	0.7	3.0 a-d	4.0 b-e	3.0 e-h	2.5
Dyna-Gro S46RY85	1.3 bcd	3.3 abc	5.0 ab	5.7 bcd	3.0 ab	1.3	3.0 a-d	5.3 a	6.0 ab	3.8
Great Heart Seed GT-435CR2	1.3 bcd	2.7 a-e	4.3 bcd	4.0 efg	2.0 bcd	1.0	2.0 b-e	3.0 efg	4.3 b-f	2.7
Great Heart Seed GT-469CR2S	1.0 b-e	3.0 a-d	3.3 efg	3.3 g	2.0 bcd	0.7	3.5 abc	4.3 a-d	5.3 a-d	2.9
MorSoy Extra 46X95	0.3 de	0.3 f	0.0 i	0.3 k	0.7 e	0.3	0.0 e	1.3 h	1.0 ij	0.5
Mycogen 5N404R2	0.0 e	1.7 c-f	0.7 i	1.7 ij	1.0 de	0.7	1.0 cde	1.3 h	1.5 hij	1.1
Mycogen 5N433R2	1.0 b-e	2.3 a-e	3.7 def	4.0 efg	1.3 cde	0.3	3.0 a-d	3.3 def	4.0 c-g	2.6
Mycogen 5N452R2	0.0 e	1.0 ef	1.7 h	1.7 ij	1.0 de	1.3	1.0 ce	2.0 gh	2.3 g-j	1.3
NK S45-V8	1.7 bc	3.3 abc	4.7 abc	3.7 fg	1.7 ce	0.3	2.0 b-e	4.3 a-d	5.3 a-d	3.0
Progeny Ag P 4211RY	1.3 bcd	2.0 b-f	2.7 g	3.7 fg	1.3 ce	0.7	1.5 b-e	2.7 fg	2.7 f-i	2.1
Progeny Ag P 4214RY	1.3 bcd	3.0 a-d	5.3 a	6.3 b	2.3 bc	1.7	5.0 a	4.3 a-d	6.0 ab	3.9
Progeny Ag P 4613RYS	1.3 bcd	2.0 b-f	3.0 fg	4.7 def	1.7 ce	0.7	3.0 a-d	5.3 a	3.7 d-g	2.8
Steyer 4303R2	1.0 b-e	1.7 c-f	4.3 bcd	5.7 bcd	1.7 ce	1.7	4.0 ab	4.0 b-e	5.0 a-d	3.2
Steyer 4602R2	2.0 b	2.7 a-e	4.0 cde	6.0 bc	3.0 ab	1.7	3.0 a-d	5.3 a	6.0 ab	3.7
USG 74F24RS	1.3 bcd	2.7 a-e	4.0 cde	5.0 cde	1.7 ce	1.3	4.0 ab	4.7 abc	4.7 a-e	3.3
LSD 1.2	1.7	0.9	1.1	1.3	1.3	2.6	1.3	1.7		
CV 69.7	51.1	18.3	19.3	51.2	105.7	43.4	23.5	7.9		
p-value <0.0001	0.0002	<0.0001	<0.0001	0.0003	0.0827	0.0206	<0.0001	<0.0001		

Table 20. Rating of Maturity Group IV Early soybean cultivars for green stem severity at indicated locations--2015

Cultivar	Green stem severity rating (0-100%)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 46-R65	43 a	63 a	67 ab	94 a	.	85 a-d	3 b	18 gh	50 b	53.0
Armor AR4305	23 bcd	8 fgh	5 k	14 fgh	.	23 jk	1 d-g	3 i	3 hi	10.0
Armor AR4504	11 e-i	32 cde	44 b-g	78 abc	.	92 ab	2 b-e	5 i	12 f-i	34.3
Armor AR4615	50 a	32 cde	60 a-d	96 a	.	58 f-i	2 b-e	30 d	8 ghi	42.0
Asgrow AG4135	5 hi	1 h	17 h-k	3 gh	.	14 kl	0 g	2 i	1 hi	5.5
Asgrow AG4232	4 hi	1 h	37 e-h	10 fgh	.	17 kl	0 g	1 i	0 i	8.8
Asgrow AG4336	3 hi	1 h	3 k	5 fgh	.	14 kl	0 g	2 i	1 hi	3.5
Asgrow AG4533	12 d-i	14 e-h	63 abc	43 de	.	70 d-g	2 b-e	15 h	2 hi	27.6
Asgrow AG4632	15 c-h	40 bcd	57 a-e	88 a	.	90 abc	2 b-e	47 b	30 cd	46.0
Credenz CZ 4590 RY	30 b	6 gh	37 e-h	24 efg	.	87 a-d	1 d-g	3 i	67 a	31.8
Croplan R2C4114	4 hi	1 h	3 k	6 fgh	.	23 jk	0 g	1 i	0 i	4.9
Croplan R2C4541	28 b	29 cde	62 abc	86 a	.	80 a-e	2 b-e	22 fg	8 ghi	39.6
Delta Grow DG 4670R2Y	22 b-e	17 e-h	75 a	91 a	.	90 abc	2 b-e	23 ef	15 e-h	41.9
Dyna-Gro 31RY45	21 b-f	28 c-g	38 d-h	63 bcd	.	50 hi	2 b-e	6 i	12 f-i	27.2
Dyna-Gro S43RY95	3 hi	18 e-h	57 a-e	12 fgh	.	63 e-h	1 d-g	30 d	27 de	26.3
Dyna-Gro S46RY85	7 ghi	28 c-g	31 f-i	89 a	.	73 b-f	3 b	5 i	4 hi	30.0
Great Heart Seed GT-435CR2	9 f-i	1 h	7 jk	19 fgh	.	28 jk	0 g	1 i	1 hi	8.4
Great Heart Seed GT-469CR2S	25 bcd	62 ab	52 b-f	78 abc	.	82 a-e	3 b	20 fg	20 d-g	42.5
MorSoy Extra 46X95	18 b-g	42 a-d	53 a-f	96 a	.	93 a	1 d-g	63 a	55 ab	52.7
Mycogen 5N404R2	1 i	1 h	2 k	2 h	.	2 l	0 g	1 i	0 i	1.1
Mycogen 5N433R2	11 e-i	19 d-h	15 h-k	15 fgh	.	82 a-e	1 d-g	40 c	43 bc	28.3
Mycogen 5N452R2	4 hi	45 abc	67 ab	83 ab	.	72 c-g	1 d-g	27 de	7 ghi	38.0
NK S45-V8	3 hi	20 d-h	47 b-g	25 ef	.	42 ij	1 d-g	20 fg	3 hi	20.0
Progeny Ag P 4211RY	6 hi	7 gh	11 ijk	12 fgh	.	82 a-e	1 d-g	2 i	1 hi	15.2
Progeny Ag P 4214RY	22 b-e	7 gh	28 g-j	58 cd	.	72 c-g	1 d-g	3 i	2 hi	24.0
Progeny Ag P 4613RYS	12 d-i	58 ab	57 a-d	58 cd	.	92 ab	5 a	40 c	25 def	43.3
Steyer 4303R2	2 hi	12 e-h	28 g-j	13 fgh	.	53 ghi	1 d-g	5 i	1 hi	14.5
Steyer 4602R2	7 ghi	19 d-h	43 c-g	81 ab	.	83 a-d	2 b-e	4 i	6 hi	30.6
USG 74F24RS	9 f-i	13 e-h	11 ijk	8 fgh	.	87 a-d	0 g	4 i	2 hi	16.6
LSD	11.8	22.2	23.3	21.5		18.5	1.5	4.7	14	
CV	50.9	62.8	38.5	28.3		18.3	67	18.8	61	
p-value	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	

Table 21. Rating of Maturity Group IV Early soybean cultivars for Phytotoxicity at Longwood--2015

Cultivar	Phytotoxicity severity
	rating (0-9)
	Longwood
Armor 46-R65	1.7
Armor AR4305	1.0
Armor AR4504	1.7
Armor AR4615	2.0
Asgrow AG4135	1.3
Asgrow AG4232	2.7
Asgrow AG4336	1.3
Asgrow AG4533	1.7
Asgrow AG4632	1.0
Credenz CZ 4590 RY	4.0
Croplan R2C4114	3.7
Croplan R2C4541	1.0
Delta Grow DG 4670R2Y	1.7
Dyna-Gro 31RY45	0.7
Dyna-Gro S43RY95	2.3
Dyna-Gro S46RY85	1.7
Great Heart Seed GT-435CR2	2.7
Great Heart Seed GT-469CR2S	1.7
MorSoy Extra 46X95	0.7
Mycogen 5N404R2	2.0
Mycogen 5N433R2	1.7
Mycogen 5N452R2	3.7
NK S45-V8	1.3
Progeny Ag P 4211RY	1.3
Progeny Ag P 4214RY	2.0
Progeny Ag P 4613RYS	2.0
Steyer 4303R2	1.3
Steyer 4602R2	2.3
USG 74F24RS	1.0
LSD 1.9	
CV 65.1	
<i>p</i> -value 0.0851	

Table 22. Reaction of Maturity Group IV Early soybean cultivars to Septoria brown spot at indicated locations--2015

Cultivar	Septoria leaf blight severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 46-R65	2.7	3.7	3.3 c	6.0	.	4.7	5.5	5.0 a-d	4.0	4.4
Armor AR4305	3.7	4.0	3.7 c	5.7	.	4.7	5.5	4.0 de	4.0	4.4
Armor AR4504	2.7	3.7	3.7 c	6.0	.	3.3	5.5	5.3 abc	4.7	4.4
Armor AR4615	1.3	5.0	4.3 bc	6.0	.	5.0	6.0	5.3 abc	5.0	4.7
Asgrow AG4135	3.0	6.0	5.7 a	6.3	.	5.3	4.0	4.7 b-e	6.0	5.1
Asgrow AG4232	1.7	4.7	3.7 c	6.0	.	3.7	4.5	3.7 e	5.0	4.1
Asgrow AG4336	2.3	4.7	4.3 bc	6.0	.	5.0	4.0	4.0 de	4.7	4.4
Asgrow AG4533	2.7	5.0	4.0 bc	6.3	.	4.7	5.5	6.0 a	6.0	5.0
Asgrow AG4632	2.7	3.0	3.7 c	6.3	.	4.3	5.0	5.7 ab	4.7	4.4
Credenz CZ 4590 RY	2.0	4.3	3.3 c	6.0	.	4.7	4.5	5.0 a-d	4.0	4.2
Croplan R2C4114	2.0	5.3	4.0 bc	6.7	.	4.3	5.5	5.0 a-d	6.3	4.9
Croplan R2C4541	2.0	5.0	3.3 c	6.3	.	3.7	5.0	6.0 a	5.0	4.5
Delta Grow DG 4670R2Y	1.7	3.0	3.3 c	6.3	.	4.3	4.5	6.0 a	5.0	4.3
Dyna-Gro 31RY45	2.0	3.7	3.3 c	6.3	.	4.3	6.0	5.7 ab	5.0	4.5
Dyna-Gro S43RY95	2.3	3.0	3.3 c	6.3	.	5.3	6.0	5.0 a-d	5.0	4.5
Dyna-Gro S46RY85	2.0	4.7	4.0 bc	5.7	.	4.3	5.0	5.7 ab	3.7	4.4
Great Heart Seed GT-435CR2	2.0	4.3	4.0 bc	6.0	.	4.0	4.0	4.0 de	4.0	4.0
Great Heart Seed GT-469CR2S	2.3	4.0	5.0 ab	5.7	.	4.3	4.0	4.7 b-e	3.7	4.2
MorSoy Extra 46X95	2.0	3.0	3.7 c	6.3	.	3.7	5.0	5.7 ab	5.3	4.3
Mycogen 5N404R2	2.0	6.0	6.0 a	6.0	.	5.0	6.0	.	2.5	4.8
Mycogen 5N433R2	2.7	3.7	3.3 c	7.0	.	4.3	3.5	5.7 ab	3.3	4.2
Mycogen 5N452R2	3.0	3.0	3.7 c	6.0	.	5.0	5.0	5.7 ab	4.7	4.5
NK S45-V8	2.3	4.0	4.0 bc	6.0	.	3.3	6.0	5.0 a-d	3.7	4.3
Progeny Ag P 4211RY	3.0	3.0	4.3 bc	5.7	.	5.0	3.5	5.0 a-d	4.7	4.3
Progeny Ag P 4214RY	3.0	4.7	4.3 bc	5.7	.	4.0	3.0	4.3 cde	3.3	4.0
Progeny Ag P 4613RYS	2.0	3.3	4.0 bc	6.0	.	4.7	5.5	5.0 a-d	4.7	4.4
Steyer 4303R2	2.7	5.0	4.3 bc	6.3	.	5.0	5.0	4.0 de	5.7	4.7
Steyer 4602R2	4.0	4.7	3.7 c	6.0	.	4.0	5.0	5.3 abc	4.3	4.6
USG 74F24RS	2.7	4.0	6.0 a	6.7	.	5.7	6.0	5.0 a-d	3.7	5.0
LSD 2.9	3.4	1.2	0.8			1.6	2.9	1.1	2.2	
CV 46.8	47.4	18.9	7.5			22.0	22.1	13.4	29.8	
p-value 0.7227	0.0869	0.0003	0.0874			0.3558	0.5925	0.0006	0.2896	

Table 23. Reaction of Maturity Group IV Early soybean cultivars to target spot at indicated locations--2015

Cultivar	Target spot severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 46-R65	.	.	2.3 f	5.0	.	.	5.5	4.0	2.7 ef	3.9
Armor AR4305	.	.	2.7 ef	5.7	.	.	5.5	4.0	2.7 ef	4.1
Armor AR4504	.	.	3.7 b-e	5.3	.	.	4.5	4.3	4.7 a-d	4.5
Armor AR4615	.	.	4.0 bcd	5.7	.	.	5.0	3.7	4.0 b-f	4.5
Asgrow AG4135	.	.	4.0 bcd	6.7	.	.	5.0	4.0	6.0 a	5.1
Asgrow AG4232	.	.	3.3 c-f	5.3	.	.	6.0	3.7	4.7 a-d	4.6
Asgrow AG4336	.	.	3.7 b-e	5.7	.	.	4.0	4.0	4.3 a-e	4.3
Asgrow AG4533	.	.	3.7 b-e	6.0	.	.	4.0	4.3	4.0 b-f	4.4
Asgrow AG4632	.	.	3.3 c-f	6.0	.	.	4.0	4.3	5.7 ab	4.7
Credenz CZ 4590 RY	.	.	3.0 def	5.7	.	.	3.0	4.3	2.7 ef	3.7
Croplan R2C4114	.	.	3.7 b-e	6.0	.	.	4.5	4.7	3.0 def	4.4
Croplan R2C4541	.	.	3.7 b-e	6.0	.	.	6.0	4.0	3.0 def	4.5
Delta Grow DG 4670R2Y	.	.	2.7 ef	6.0	.	.	4.0	5.0	3.7 c-f	4.3
Dyna-Gro 31RY45	.	.	2.3 f	6.0	.	.	3.5	4.7	4.3 a-e	4.2
Dyna-Gro S43RY95	.	.	3.0 def	5.7	.	.	5.0	4.3	3.0 def	4.2
Dyna-Gro S46RY85	.	.	3.7 b-e	5.7	.	.	4.0	4.0	3.7 c-f	4.2
Great Heart Seed GT-435CR2	.	.	2.7 ef	5.7	.	.	4.0	4.0	4.7 a-d	4.2
Great Heart Seed GT-469CR2S	.	.	3.7 b-e	5.0	.	.	4.5	4.0	4.0 b-f	4.2
MorSoy Extra 46X95	.	.	2.7 ef	5.7	.	.	5.0	4.0	3.0 def	4.1
Mycogen 5N404R2	.	.	4.3 bc	5.3	.	.	5.0	.	4.0 b-f	4.7
Mycogen 5N433R2	.	.	2.3 f	6.3	.	.	4.0	4.7	3.7 c-f	4.2
Mycogen 5N452R2	.	.	3.0 def	5.7	.	.	5.0	4.7	2.3 f	4.1
NK S45-V8	.	.	3.0 def	6.0	.	.	6.0	3.0	2.3 f	4.1
Progeny Ag P 4211RY	.	.	4.3 bc	5.3	.	.	3.5	3.7	5.0 abc	4.4
Progeny Ag P 4214RY	.	.	4.3 bc	5.7	.	.	5.0	4.0	4.3 a-e	4.7
Progeny Ag P 4613RYS	.	.	4.3 bc	5.3	.	.	5.0	3.7	4.7 a-d	4.6
Steyer 4303R2	.	.	4.7 ab	6.0	.	.	2.0	3.3	3.7 c-f	3.9
Steyer 4602R2	.	.	3.3 c-f	5.7	.	.	6.0	4.3	3.7 c-f	4.6
USG 74F24RS	.	.	5.7 a	6.0	.	.	5.0	4.7	3.7 c-f	5.0
LSD			1.2	0.8			1.3	1.2	1.9	
CV			21.6	8.6			28.9	17.9	31	
p-value			<0.0001	0.0539			0.7611	0.3793	0.0235	

Table 24. Reaction of Maturity Group IV Late soybean cultivars to Cercospora leaf blight at indicated locations--2015

Cultivar	Cercospora leaf blight severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 49X	6.0 abc	6.7 b-e	5.0 c	6.3 ab	5.3 bc	5.3	6.3 abc	7.0 bcd	6.7 cd	6.1
Armor AR4705	6.3 ab	6.7 b-e	5.0 c	6.7 ab	6.3 a	5.0	7.0 a	7.7 ab	7.7 ab	6.5
Armor AR4904	5.0 de	7.0 a-d	5.7 ab	5.0 c	6.0 ab	5.0	6.7 ab	7.0 bcd	7.0 bcd	6.0
Asgrow AG4835	5.0 de	5.0 g	5.0 c	5.0 c	5.3 bc	5.7	6.3 abc	7.7 ab	7.7 ab	5.9
Asgrow AG4934	5.3 cde	5.7 efg	5.0 c	5.0 c	5.7 abc	5.0	6.3 abc	7.0 bcd	7.0 bcd	5.8
Credenz CZ 4959 RY	6.0 abc	7.0 a-d	5.0 c	6.0 abc	5.7 abc	5.7	6.0 bcd	6.7 cd	6.7 cd	6.1
Croplan R2C4752S	5.3 cde	6.3 c-f	5.0 c	6.0 abc	5.7 abc	5.0	6.0 bcd	7.0 bcd	7.0 bcd	5.9
Delta Grow DG 4755RR2	5.7 bcd	8.0 a	5.0 c	5.0 c	5.7 abc	5.3	6.7 ab	8.0 a	8.0 a	6.4
Delta Grow DG 4765RR2/STS	5.7 bcd	6.3 c-f	5.0 c	6.3 ab	5.3 bc	5.0	6.0 bcd	7.3 abc	7.0 bc	6.0
Delta Grow DG 4775RR2/STS	5.7 bcd	6.7 b-e	5.0 c	6.0 abc	6.0 ab	5.0	6.0 bcd	7.0 bcd	7.0 bcd	6.0
Delta Grow DG 4790 RR2	5.7 bcd	6.3 c-f	5.0 c	6.0 abc	6.0 ab	5.3	7.0 a	8.0 a	7.3 abc	6.3
Delta Grow DG 4825RR2/STS	6.0 abc	6.0 d-g	5.0 c	6.0 abc	5.7 abc	5.0	6.3 abc	7.3 abc	7.3 abc	6.1
Delta Grow DG 4880RR	6.0 abc	7.7 ab	5.0 c	6.0 abc	5.7 abc	5.0	5.7 cde	7.7 ab	7.3 abc	6.2
Delta Grow DG 4935 RR2/STS	5.3 cde	6.7 b-e	5.0 c	6.0 abc	5.7 abc	5.3	5.0 e	7.0 bcd	6.7 cd	5.9
Delta Grow DG 4970RR	6.0 abc	6.7 b-e	6.0 a	6.3 ab	5.7 abc	5.3	6.3 abc	7.0 bcd	7.3 abc	6.3
Delta Grow DG 4995 RR	6.0 abc	6.3 c-f	6.0 a	5.0 c	6.0 ab	5.7	6.3 abc	7.0 bcd	6.7 cd	6.1
Dyna-Gro 37RY47	6.0 abc	6.7 b-e	5.0 c	7.0 a	5.0 c	5.3	6.7 ab	7.0 bcd	7.7 ab	6.3
Dyna-Gro S48RS53	5.3 cde	6.7 b-e	5.0 c	6.7 ab	5.7 abc	5.0	5.7 cde	6.3 d	7.0 bcd	5.9
Dyna-Gro S49RY25	5.3 cde	6.3 c-f	5.0 c	5.7 bc	5.3 bc	5.3	6.7 ab	7.0 bcd	6.7 cd	5.9
Go Soy 4714GTS(MPG 4714)	5.0 de	6.0 d-g	5.3 bc	6.3 ab	5.0 c	5.3	5.7 cde	7.0 bcd	7.3 abc	5.9
Go Soy 4914GTS	5.7 bcd	6.3 c-f	5.7 ab	6.0 abc	6.0 ab	5.7	6.0 bcd	7.0 bcd	6.3 d	6.1
Go Soy 4915R2	5.0 de	6.5 cde	5.0 c	6.3 ab	5.0 c	5.0	5.3 de	7.0 bcd	6.3 d	5.7
Great Heart Seed GT-476CR2	6.7 a	8.0 a	5.0 c	6.7 ab	6.0 ab	5.0	6.7 ab	8.0 a	8.0 a	6.7
Great Heart Seed GT-477CR2	6.3 ab	7.3 abc	5.0 c	6.7 ab	5.3 bc	5.3	7.0 a	8.0 a	8.0 a	6.5
Great Heart Seed GT-482CR2S	6.0 abc	7.0 a-d	5.0 c	6.0 abc	5.7 abc	5.3	6.7 ab	7.0 bcd	7.3 abc	6.2
Hornbeck HBK RY4721	5.5 b-e	7.3 abc	5.0 c	6.7 ab	5.3 bc	5.0	6.7 ab	8.0 a	7.7 ab	6.4
MorSoy Extra 47X12	6.0 abc	6.0 d-g	5.3 bc	6.0 abc	5.7 abc	5.3	6.0 bcd	6.7 cd	6.7 cd	6.0
MorSoy Extra 48X02	5.0 de	6.7 b-e	5.3 bc	5.7 bc	5.7 abc	5.5	6.7 ab	7.7 ab	7.7 ab	6.2
MorSoy Extra 49X85	6.0 abc	5.7 efg	5.0 c	6.0 abc	5.0 c	5.3	5.7 cde	6.3 d	6.3 d	5.7
Mycogen 5N479R2	5.7 bcd	6.3 c-f	5.7 ab	6.7 ab	5.7 abc	5.3	6.0 bcd	6.7 cd	7.0 bcd	6.1
Mycogen 5N490R2(MYCX54480NR2	6.3 ab	6.7 b-e	5.3 bc	6.0 abc	5.3 bc	5.3	6.0 bcd	7.3 abc	7.0 bcd	6.1
NK S47-K5	6.7 a	6.0 d-g	5.0 c	6.0 abc	5.3 bc	6.0	6.7 ab	7.7 ab	7.0 bcd	6.3

Table 24 continued

Cultivar	Cercospora leaf blight severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
NK S48-D9	6.3 ab	7.3 abc	5.0 c	5.0 c	6.0 ab	5.3	7.0 a	7.0 bcd	7.7 ab	6.3
Progeny Ag P 4757RY	5.7 bcd	6.7 b-e	5.0 c	6.7 ab	5.7 abc	5.3	6.3 abc	8.0 a	7.7 ab	6.3
Progeny Ag P 4788RY	5.3 cde	7.0 a-d	5.0 c	6.3 ab	5.0 c	5.3	7.0 a	8.0 a	7.7 ab	6.3
Progeny Ag P 4850RYS	5.3 cde	7.0 a-d	5.3 bc	6.3 ab	5.7 abc	5.0	5.3 de	7.0 bcd	6.7 cd	6.0
Progeny Ag P 4900RY	5.0 de	6.5 cde	5.0 c	5.0 c	5.7 abc	5.7	6.3 abc	7.0 bcd	6.7 cd	5.9
Terral REV® 47R34™	5.7 bcd	7.7 ab	5.3 bc	6.7 ab	6.0 ab	5.3	5.7 cde	7.7 ab	8.0 a	6.5
Terral REV® 47R53™	5.0 de	7.0 a-d	6.0 a	6.3 ab	6.0 ab	5.0	5.7 cde	7.7 ab	8.0 a	6.3
Terral REV® 48A46™	5.7 bcd	5.3 fg	5.3 bc	6.0 abc	5.3 bc	5.7	6.0 bcd	6.7 cd	6.7 cd	5.9
Terral REV® 49A14	6.3 ab	6.3 c-f	5.0 c	6.0 abc	5.3 bc	5.7	7.0 a	8.0 a	7.3 abc	6.3
Terral REV® 49A55™	6.0 abc	7.0 a-d	5.0 c	6.3 ab	6.0 ab	5.0	6.3 abc	8.0 a	7.7 ab	6.4
Terral REV® 49A75™	5.7 bcd	7.0 a-d	5.3 bc	5.7 bc	5.3 bc	5.0	6.0 bcd	8.0 a	8.0 a	6.2
Terral REV® 49R94™	5.3 cde	6.7 b-e	5.0 c	6.0 abc	5.7 abc	5.3	5.7 cde	7.0 bcd	7.0 bcd	6.0
Schillinger 495.RC	6.3 ab	6.5 cde	5.7 ab	6.3 ab	5.0 c	5.7	5.7 cde	7.0 bcd	7.0 bcd	6.1
Steyer 4802R2	5.0 de	6.3 c-f	5.0 c	6.0 abc	5.7 abc	5.7	6.3 abc	7.3 abc	7.0 bcd	6.0
Univ. of Missouri S11-20337	6.0 abc	6.0 d-g	6.0 a	6.0 abc	6.0 ab	5.7	6.0 bcd	7.0 bcd	6.7 cd	6.2
USG 74B83RS(74B83R)	6.0 abc	6.7 b-e	5.0 c	6.3 ab	5.7 abc	5.0	6.0 bcd	7.3 abc	7.0 bcd	6.1
USG 74D95RS	4.7 e	6.7 b-e	5.0 c	6.0 abc	5.0 c	5.0	6.3 abc	7.0 bcd	7.0 bcd	5.9
USG 74K95RS	6.3 ab	5.3 fg	5.3 bc	6.3 ab	5.0 c	5.0	5.7 cde	7.0 bcd	6.3 d	5.8
USG A74A74RS	6.7 a	7.0 a-d	5.3 bc	6.0 abc	5.3 bc	5.3	6.7 ab	7.0 bcd	7.3 abc	6.3
LSD	0.8	1	0.5	1.2	0.8	0.7	0.9	0.7	0.7	
CV	9.1	9.3	5.8	11.9	38.6	8.6	9.4	5.8	6.3	
p-value	<0.0001	<0.0001	<0.0001	0.0408	0.038	0.5334	0.0006	<0.0001	<0.0001	

Table 25. Reaction of Maturity Group IV Late soybean cultivars to frogeye leaf spot at indicated locations--2015

Cultivar	Frogeye leaf spot severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 49X	3.0 cde	2.7 c-f	3.7 cd	6.0 de	2.3 ef	0.7	3.3 abc	4.0 c-h	1.7 hij	3.0
Armor AR4705	0.0 k	0.0 k	0.3 h	0.0 k	0.7 gh	0.3	0.3 ij	2.0 ijk	0.7 jk	0.5
Armor AR4904	3.3 bcd	2.7 c-f	5.3 a	7.7 ab	5.3 a	2.7	3.7 ab	5.7 abc	5.3 ab	4.6
Asgrow AG4835	1.3 g-j	2.0 e-h	2.0 g	3.3 hi	1.0 gh	1.3	1.0 g-j	4.3 b-g	2.3 gh	2.1
Asgrow AG4934	2.3 d-g	3.3 a-d	4.7 ab	6.7 b-e	5.3 a	1.3	3.3 abc	6.0 ab	3.7 def	4.1
Credenz CZ 4959 RY	2.0 e-h	1.7 f-i	3.3 de	4.3 gh	1.7 fg	1.0	2.0 d-g	3.7 d-i	2.0 ghi	2.4
Croplan R2C4752S	2.7 c-f	2.0 e-h	3.0 def	3.3 hi	1.3 fgh	1.7	1.3 f-i	4.7 a-f	2.3 gh	2.5
Delta Grow DG 4755RR2	2.3 d-g	1.7 f-i	3.0 def	3.7 ghi	1.3 fgh	0.7	2.3 c-f	3.3 e-i	0.7 jk	2.1
Delta Grow DG 4765RR2/STS	1.3 g-j	1.7 f-i	2.0 g	3.0 i	1.7 fg	0.3	2.0 d-g	3.7 d-i	2.3 gh	2.0
Delta Grow DG 4775RR2/STS	3.3 bcd	4.3 a	5.0 ab	6.7 b-e	5.3 a	2.7	2.7 b-e	6.0 ab	4.3 bcd	4.5
Delta Grow DG 4790 RR2	0.0 k	0.3 jk	0.3 h	0.0 k	1.0 gh	0.3	0.3 ij	1.0 k	1.0 ijk	0.5
Delta Grow DG 4825RR2/STS	2.3 d-g	3.0 b-e	4.7 ab	5.7 ef	4.0 bcd	2.0	3.7 ab	4.3 b-g	4.0 cde	3.7
Delta Grow DG 4880RR	0.0 k	0.0 k	0.0 h	0.0 k	1.0 gh	1.0	0.3 ij	2.0 ijk	0.7 jk	0.6
Delta Grow DG 4935 RR2/STS	1.0 h-k	1.0 h-k	2.7 efg	3.0 i	1.3 fgh	1.7	2.3 c-f	5.0 a-e	3.0 efg	2.3
Delta Grow DG 4970RR	0.0 k	0.0 k	0.0 h	0.3 jk	1.0 gh	0.0	0.3 ij	3.0 f-j	1.0 ijk	0.6
Delta Grow DG 4995 RR	0.0 k	0.3 jk	0.0 h	0.0 k	1.0 gh	0.7	0.7 hij	1.0 k	1.0 ijk	0.5
Dyna-Gro 37RY47	2.3 d-g	3.7 abc	5.0 ab	8.0 a	5.3 a	2.0	4.0 a	4.7 a-f	4.3 bcd	4.4
Dyna-Gro S48RS53	1.3 g-j	2.3 d-g	2.3 fg	4.0 ghi	1.7 fg	0.3	1.0 g-j	4.3 b-g	2.7 fgh	2.2
Dyna-Gro S49RY25	2.0 e-h	2.3 d-g	2.7 efg	3.3 hi	3.7 cd	1.3	1.0 g-j	4.0 c-h	2.7 fgh	2.6
Go Soy 4714GTS(MPG 4714)	2.3 d-g	3.7 abc	4.3 bc	5.7 ef	5.0 ab	2.0	2.0 d-g	4.7 a-f	4.7 a-d	3.8
Go Soy 4914GTS	0.0 k	0.3 jk	0.0 h	0.3 jk	1.0 gh	0.0	1.0 g-j	1.3 jk	0.7 jk	0.5
Go Soy 4915R2	2.3 d-g	1.0 h-k	2.7 efg	3.3 hi	1.7 fg	2.0	1.3 f-i	4.3 b-g	2.0 ghi	2.3
Great Heart Seed GT-476CR2	0.3 jk	0.7 ijk	3.7 cd	4.0 ghi	3.3 de	1.0	1.7 e-h	4.0 c-h	1.0 ijk	2.2
Great Heart Seed GT-477CR2	0.0 k	0.3 jk	0.0 h	0.0 k	1.0 gh	1.7	0.3 ij	1.0 k	0.7 jk	0.6
Great Heart Seed GT-482CR2S	3.7 bc	3.0 b-e	4.7 ab	6.7 b-e	5.3 a	3.7	3.0 a-d	6.0 ab	5.0 abc	4.6
Hornbeck HBK RY4721	1.5 f-j	0.3 jk	0.3 h	0.3 jk	1.3 fgh	1.0	1.3 f-i	1.3 jk	1.0 ijk	0.9
MorSoy Extra 47X12	2.5 c-g	2.7 c-f	2.3 fg	4.0 ghi	1.7 fg	0.8	2.0 d-g	4.3 b-g	2.7 fgh	2.6
MorSoy Extra 48X02	6.7 a	2.0 e-h	3.7 cd	4.7 fg	3.0 de	0.5	1.3 f-i	4.3 b-g	3.0 efg	3.2
MorSoy Extra 49X85	1.0 h-k	3.0 b-e	4.3 bc	7.7 ab	4.7 abc	2.0	3.3 abc	5.3 a-d	3.0 efg	3.8
Mycogen 5N479R2	2.3 d-g	2.0 e-h	3.3 de	4.0 ghi	1.7 fg	0.3	0.7 hij	4.3 b-g	1.7 hij	2.3
Mycogen 5N490R2(MYCX54480NR2	0.0 k	3.3 a-d	5.0 ab	7.0 a-d	5.0 ab	2.0	3.0 a-d	6.3 a	4.7 a-d	4.0
NK S47-K5	0.0 k	0.0 k	0.0 h	0.7 jk	0.3 h	4.0	0.3 ij	1.0 k	0.7 jk	0.8

Table 25 continued

Cultivar	Frogeye leaf spot severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
NK S48-D9	0.3 jk	0.5 ijk	0.3 h	0.7 jk	1.3 fgh	0.0	0.0 j	3.0 f-j	0.3 k	0.7
Progeny Ag P 4757RY	0.3 jk	0.0 k	0.0 h	1.0 jk	0.7 gh	1.3	0.7 hij	1.0 k	1.0 ijk	0.7
Progeny Ag P 4788RY	1.7 f-i	0.0 k	0.3 h	0.3 jk	1.3 fgh	1.0	0.0 j	1.0 k	1.0 ijk	0.7
Progeny Ag P 4850RYS	1.3 g-j	1.3 g-j	2.0 g	4.0 ghi	1.3 fgh	0.7	1.3 f-i	4.3 b-g	2.7 fgh	2.1
Progeny Ag P 4900RY	0.3 jk	2.5 c-g	2.3 fg	4.3 gh	2.3 ef	2.3	2.3 c-f	5.0 a-e	2.7 fgh	2.7
Terral REV® 47R34™	0.7 ijk	0.0 k	0.0 h	0.3 jk	0.7 gh	0.3	0.0 j	2.7 g-k	0.3 k	0.6
Terral REV® 47R53™	0.7 ijk	0.3 jk	0.0 h	0.7 jk	1.0 gh	0.3	0.0 j	1.0 k	1.0 ijk	0.6
Terral REV® 48A46™	2.3 d-g	0.0 k	0.0 h	1.0 jk	1.7 fg	0.0	0.3 ij	1.0 k	1.0 ijk	0.8
Terral REV® 49A14	0.0 k	3.7 abc	3.0 def	6.3 cde	3.0 de	2.0	1.7 e-h	5.3 a-d	4.0 cde	3.2
Terral REV® 49A55™	1.3 g-j	0.3 jk	0.7 h	1.3 j	1.0 gh	0.3	0.3 ij	2.0 ijk	2.0 ghi	1.0
Terral REV® 49A75™	0.3 jk	2.3 d-g	2.7 efg	4.0 ghi	2.3 ef	0.7	1.3 f-i	4.3 b-g	1.7 hij	2.2
Terral REV® 49R94™	0.3 jk	0.0 k	0.3 h	0.7 jk	1.0 gh	0.7	0.0 j	1.0 k	0.7 jk	0.5
Schillinger 495.RC	2.7 c-f	0.0 k	0.0 h	0.3 jk	1.3 fgh	0.0	1.0 g-j	1.3 jk	0.3 k	0.8
Steyer 4802R2	0.3 jk	3.0 b-e	4.7 ab	7.0 a-d	3.7 cd	1.0	2.7 b-e	6.0 ab	4.7 a-d	3.7
Univ. of Missouri S11-20337	3.0 cde	0.0 k	0.0 h	0.0 k	0.7 gh	0.0	1.0 g-j	2.3 h-k	0.7 jk	0.9
USG 74B83RS(74B83R)	4.3 b	3.0 b-e	4.7 ab	6.7 b-e	3.0 de	3.3	3.3 abc	5.0 a-e	4.3 bcd	4.2
USG 74D95RS	1.0 h-k	3.7 abc	5.3 a	7.3 abc	5.3 a	2.7	4.0 a	6.3 a	5.7 a	4.6
USG 74K95RS	2.7 c-f	1.3 g-j	2.0 g	3.3 hi	1.3 fgh	0.7	2.0 d-g	4.3 b-g	2.7 fgh	2.3
USG A74A74RS	1.0 h-k	4.0 ab	5.0 ab	7.7 ab	5.0 ab	2.0	2.7 b-e	6.0 ab	5.3 ab	4.3
LSD 1.3	1.2	0.8	1.1	1.3	2.3	1.3	2	1.2		
CV 50.7	44.1	20.6	20.7	33.4	115.7	49.8	33.8	32.4		
p-value <0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0564	<0.0001	<0.0001	<0.0001	

Table 26. Rating of Maturity Group IV Late soybean cultivars for green stem severity at indicated locations--2015

Cultivar	Green stem severity rating (0-100%)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 49X	57 cde	87 a	90 a-d	3 def	.	90 a	4 e-h	77 b	93 a	62.6
Armor AR4705	16 lm	30 d-g	88 a-d	1 f	.	70 d-h	2 fgh	53 efg	72 c-f	41.5
Armor AR4904	37 e-l	10 g-l	87 a-e	3 def	.	48 klm	5 e-h	12 qr	22 n-q	28.0
Asgrow AG4835	35 f-m	21 e-l	90 a-d	1 f	.	80 a-e	6 d-h	70 bc	3 rs	38.3
Asgrow AG4934	47 d-i	50 bcd	85 a-f	1 f	.	65 f-j	10 c-g	33 ijk	5 qrs	37.0
Credenz CZ 4959 RY	35 f-m	2 l	40 nop	0 f	.	73 c-f	8 c-h	15 pqr	27 l-o	25.0
Croplan R2C4752S	40 e-j	4 jkl	90 a-d	1 f	.	88 a	3 e-h	33 ijk	2 s	32.6
Delta Grow DG 4755RR2	35 f-m	12 g-l	75 fgh	0 f	.	90 a	8 c-h	22 m-p	63 d-h	38.1
Delta Grow DG 4765RR2/STS	27 i-m	20 e-l	95 a	1 f	.	78 a-e	7 c-h	27 k-n	2 s	32.1
Delta Grow DG 4775RR2/STS	40 e-j	3 kl	87 a-e	1 f	.	85 abc	1 h	28 j-m	7 qrs	31.5
Delta Grow DG 4790 RR2	33 g-m	5 i-l	88 a-d	1 f	.	85 abc	2 fgh	75 b	37 j-n	40.8
Delta Grow DG 4825RR2/STS	33 g-m	10 g-l	90 a-d	1 f	.	37 mn	5 e-h	18 opq	43 i-l	29.6
Delta Grow DG 4880RR	47 d-i	12 g-l	30 op	2 ef	.	80 a-e	6 d-h	90 a	74 b-e	42.6
Delta Grow DG 4935 RR2/STS	37 e-l	6 h-l	92 abc	0 f	.	58 h-k	32 b	30 jkl	1 s	32.0
Delta Grow DG 4970RR	27 i-m	11 g-l	53 klm	4 def	.	82 a-d	7 c-h	57 def	65 d-g	38.3
Delta Grow DG 4995 RR	95 a	4 jkl	57 jkl	43 a	.	87 ab	63 a	60 de	93 a	62.8
Dyna-Gro 37RY47	35 f-m	2 l	35 op	1 f	.	78 a-e	2 fgh	3 s	3 rs	19.9
Dyna-Gro S48RS53	28 h-m	3 jkl	82 c-f	0 f	.	68 e-i	7 c-h	27 k-n	1 s	27.0
Dyna-Gro S49RY25	47 d-i	22 e-l	92 abc	1 f	.	87 ab	14 cd	60 de	17 o-s	42.5
Go Soy 4714GTS(MPG 4714)	53 c-g	1 l	3 r	0 f	.	75 b-f	10 c-g	2 s	3 rs	18.4
Go Soy 4914GTS	92 ab	30 d-g	53 klm	7 d	.	90 a	67 a	70 bc	90 ab	62.4
Go Soy 4915R2	38 e-k	5 i-l	77 efg	1 f	.	82 a-d	7 c-h	47 gh	2 s	32.4
Great Heart Seed GT-476CR2	14 m	8 g-l	68 ghi	2 ef	.	90 a	3 e-h	77 b	25 m-p	35.9
Great Heart Seed GT-477CR2	18 klm	2 l	87 a-e	1 f	.	11 o	2 fgh	87 a	58 e-i	33.3
Great Heart Seed GT-482CR2S	32 h-m	12 g-l	80 def	1 f	.	87 ab	1 h	28 j-m	3 rs	30.5
Hornbeck HBK RY4721	18 klm	15 g-l	82 c-f	0 f	.	80 a-e	1 h	63 cd	13 o-s	34.0
MorSoy Extra 47X12	48 d-h	20 e-l	88 a-d	1 f	.	88 a	7 c-h	17 opq	2 s	33.9
MorSoy Extra 48X02	25 j-m	15 g-l	45 mno	1 f	.	78 a-e	6 d-h	30 jkl	22 n-q	27.8
MorSoy Extra 49X85	73 bc	57 bc	95 a	32 b	.	87 ab	67 a	92 a	35 k-n	67.3
Mycogen 5N479R2	30 h-m	10 g-l	63 ijk	1 f	.	88 a	3 e-h	30 jkl	2 s	28.4
Mycogen 5N490R2(MYCX54480NR2	32 h-m	15 g-l	82 c-f	1 f	.	80 a-e	2 fgh	28 j-m	2 s	30.3
NK S47-K5	28 h-m	57 bc	92 abc	2 ef	.	87 ab	2 fgh	35 ij	80 a-d	47.9

Table 26 continued

Cultivar	Green stem severity rating (0-100%)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
NK S48-D9	30 h-m	39 c-f	95 a	2 ef	.	88 a	3 e-h	93 a	90 ab	55.0
Progeny Ag P 4757RY	30 h-m	28 d-h	87 a-e	3 def	.	53 jkl	2 fgh	87 a	42 i-m	41.5
Progeny Ag P 4788RY	53 c-g	43 cde	50 lmn	1 f	.	82 a-d	2 fgh	73 b	37 j-n	42.6
Progeny Ag P 4850RYS	43 e-j	9 g-l	80 def	0 f	.	83 abc	5 e-h	50 fg	1 s	33.9
Progeny Ag P 4900RY	57 cde	21 e-l	93 ab	1 f	.	73 c-f	3 e-h	90 a	57 f-i	49.4
Terral REV® 47R34™	55 c-f	25 e-k	23 q	2 ef	.	82 a-d	2 fgh	18 opq	2 s	26.1
Terral REV® 47R53™	15 m	2 l	1 r	0 f	.	83 abc	3 e-h	2 s	3 rs	13.6
Terral REV® 48A46™	67 cd	70 ab	65 hij	18 c	.	83 abc	15 c	90 a	93 a	62.6
Terral REV® 49A14	43 e-j	15 g-l	67 g-j	2 ef	.	90 a	1 h	32 jk	20 n-r	33.8
Terral REV® 49A55™	48 d-h	26 e-j	83 b-f	3 def	.	85 abc	3 e-h	32 jk	22 n-q	37.8
Terral REV® 49A75™	73 bc	1 l	77 efg	1 f	.	78 a-e	8 c-h	20 nop	53 g-j	38.9
Terral REV® 49R94™	33 g-m	27 e-i	60 i-l	4 def	.	73 c-f	2 fgh	57 def	13 o-s	33.6
Schillinger 495.RC	53 c-g	9 g-l	75 fgh	4 def	.	65 f-j	10 c-g	63 cd	53 g-j	41.5
Steyer 4802R2	27 i-m	11 g-l	90 a-d	1 f	.	73 c-f	2 fgh	8 rs	47 h-k	32.4
Univ. of Missouri S11-20337	95 a	23 e-l	90 a-d	8 d	.	78 a-e	67 a	35 ij	87 abc	60.4
USG 74B83RS(74B83R)	27 i-m	23 e-l	88 a-d	8 d	.	32 n	2 fgh	28 j-m	9 p-s	27.1
USG 74D95RS	37 e-l	70 ab	85 a-f	3 def	.	57 ijk	2 fgh	40 hi	15 o-s	38.6
USG 74K95RS	45 e-j	4 jkl	82 c-f	1 f	.	43 lmn	11 cde	60 de	1 s	30.9
USG A74A74RS	45 e-j	6 h-l	82 c-f	2 ef	.	60 g-k	5 e-h	23 l-o	5 qrs	28.5
LSD	21.4	22.2	11.4	5.6		18.5	1.5	4.7	17.3	
CV	31.4	62.8	9.6	98.8		18.3	67	18.8	33.7	
p-value	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	

Table 27. Rating of Maturity Group IV Late soybean cultivars for phytotoxicity at Longwood--2015.

Cultivar	Phytotoxicity severity
	rating (0-9)
Cultivar	Longwood
Armor 49X	0.0 i
Armor AR4705	0.3 hi
Armor AR4904	0.3 hi
Asgrow AG4835	1.7 efg
Asgrow AG4934	0.0 i
Credenz CZ 4959 RY	2.7 de
Croplan R2C4752S	1.3 fgh
Delta Grow DG 4755RR2	1.0 f-i
Delta Grow DG 4765RR2/STS	1.7 efg
Delta Grow DG 4775RR2/STS	0.7 ghi
Delta Grow DG 4790 RR2	0.0 i
Delta Grow DG 4825RR2/STS	0.0 i
Delta Grow DG 4880RR	1.3 fgh
Delta Grow DG 4935 RR2/STS	1.7 efg
Delta Grow DG 4970RR	1.0 f-i
Delta Grow DG 4995 RR	1.0 f-i
Dyna-Gro 37RY47	1.0 f-i
Dyna-Gro S48RS53	1.7 efg
Dyna-Gro S49RY25	0.0 i
Go Soy 4714GTS(MPG 4714)	2.0 ef
Go Soy 4914GTS	1.0 i
Go Soy 4915R2	1.3 fgh
Great Heart Seed GT-476CR2	0.0 i
Great Heart Seed GT-477CR2	0.0 i
Great Heart Seed GT-482CR2S	0.0 i
Hornbeck HBK RY4721	1.7 efg
MorSoy Extra 47X12	1.7 efg
MorSoy Extra 48X02	0.3 hi
MorSoy Extra 49X85	0.0 i
Mycogen 5N479R2	1.0 i
Mycogen 5N490R2(MYCX54480NR2)	0.3 hi
NK S47-K5	5.0 ab
NK S48-D9	2.7 de
Progeny Ag P 4757RY	0.7 ghi
Progeny Ag P 4788RY	0.0 i
Progeny Ag P 4850RYS	0.0 i
Progeny Ag P 4900RY	0.3 hi
Terral REV® 47R34™	1.3 fgh
Terral REV® 47R53™	3.3 cd
Terral REV® 48A46™	0.0 i
Terral REV® 49A14	0.0 i

Table 27 continued

Terral REV® 49A55™

2 ef

**Phytotoxicity severity
rating (0-9)**

Cultivar	Longwood
Terral REV® 49A75™	6.0 a
Terral REV® 49R94™	4.0 bc
Schillinger 495.RC	0.0 i
Steyer 4802R2	0.0 i
Univ. of Missouri S11-20337	0.7 ghi
USG 74B83RS(74B83R)	0.7 ghi
USG 74D95RS	1.3 fgh
USG 74K95RS	1.7 efg
USG A74A74RS	0.7 ghi
	LSD 1
	CV 55.5
	<i>p</i> -value <0.0001

Table 28. Reaction of Maturity Group IV Late soybean cultivars to Septoria brown spot at indicated locations--2015

Cultivar	Septoria brown spot severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 49X	.	5.0	3	4.7	.	5 b	4.3 bcd	5.3	4.7	4.6
Armor AR4705	.	5.3	3.3	6	.	5 b	5.3 abc	6	4.7	5.1
Armor AR4904	.	4.3	3.3	5	.	3.3 b	4.3 bcd	5.7	4.7	4.4
Asgrow AG4835	.	4.0	4	4.7	.	4.7 b	5.3 abc	6.3	5.3	4.9
Asgrow AG4934	.	5.0	3.3	5.7	.	4.7 b	5 abc	6	5.3	5.0
Credenz CZ 4959 RY	.	5.0	3.3	5.3	.	5.3 b	5.3 abc	5.3	5.7	5.0
Croplan R2C4752S	.	5.0	4	5.7	.	3.7 b	4.7 a-d	5.3	5	4.8
Delta Grow DG 4755RR2	.	4.7	4	6	.	6.3 b	5 abc	6	4.7	5.2
Delta Grow DG 4765RR2/STS	.	5.0	2.7	5.7	.	4 b	4.3 bcd	5.3	6	4.7
Delta Grow DG 4775RR2/STS	.	5.3	3.7	5.7	.	4.7 b	5 abc	6	5	5.1
Delta Grow DG 4790 RR2	.	5.3	3.3	5.3	.	5 b	5 abc	6	5.3	5.0
Delta Grow DG 4825RR2/STS	.	5.0	3.3	5.7	.	5.3 b	5.3 abc	5.3	6	5.1
Delta Grow DG 4880RR	.	5.0	3	6	.	5.7 b	5.3 abc	6.3	5.7	5.3
Delta Grow DG 4935 RR2/STS	.	4.0	3.3	4.7	.	4.7 b	4.3 bcd	5.7	5.7	4.6
Delta Grow DG 4970RR	.	5.0	2.7	6.3	.	5 b	4.7 a-d	5.7	6	5.1
Delta Grow DG 4995 RR	.	5.3	2.7	4.3	.	5.3 b	5.3 abc	6	5.7	4.9
Dyna-Gro 37RY47	.	5.0	4.7	5.7	.	4.7 b	4 cd	5.7	5.3	5.0
Dyna-Gro S48RS53	.	4.7	3	5.7	.	4.7 b	5 abc	6	4.7	4.8
Dyna-Gro S49RY25	.	4.3	3.7	5.7	.	4.3 b	5.7 ab	5	5.7	4.9
Go Soy 4714GTS(MPG 4714)	.	4.7	4	5.3	.	4.3 b	5 abc	5.3	5.3	4.8
Go Soy 4914GTS	.	4.7	3.3	5	.	5 b	4.3 bcd	5.3	4.3	4.6
Go Soy 4915R2	.	6.0	3.3	6	.	3.7 b	4.7 a-d	5.3	5.7	5.0
Great Heart Seed GT-476CR2	.	4.0	4	6	.	4.7 b	6 a	5.7	5.7	5.2
Great Heart Seed GT-477CR2	.	5.0	3.7	5.7	.	5.3 b	5.7 ab	6.3	4.7	5.2
Great Heart Seed GT-482CR2S	.	5.3	3.7	5	.	5 b	5.3 abc	6.3	6.3	5.3
Hornbeck HBK RY4721	.	4.7	3.3	6	.	6 b	6 a	6	6	5.4
MorSoy Extra 47X12	.	4.3	2.7	5.7	.	5 b	4.7 a-d	6	5	4.8
MorSoy Extra 48X02	.	4.3	3.7	5.7	.	3.5 b	5.3 abc	6	5.7	4.9
MorSoy Extra 49X85	.	4.0	4	4.7	.	4 b	4 cd	5	4.3	4.3
Mycogen 5N479R2	.	4.7	3.3	5	.	5.7 b	5.3 abc	5.3	5.7	5.0
Mycogen 5N490R2(MYCX54480NR2	.	4.7	3.7	5.7	.	5.3 b	5 abc	5.7	6	5.2
NK S47-K5	.	5.0	3	5	.	17.5 a	5 abc	6	5.7	6.7

Table 28 continued

Cultivar	Septoria brown spot severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
NK S48-D9	.	5.0	3.3	5.3	.	6.3 b	6 a	6	5.7	5.4
Progeny Ag P 4757RY	.	4.7	3	5.7	.	5.7 b	5.7 ab	6	5.3	5.2
Progeny Ag P 4788RY	.	5.0	4.3	6.3	.	4.7 b	5 abc	6.3	5.3	5.3
Progeny Ag P 4850RYS	.	5.0	3	4.7	.	5 b	5.7 ab	6	5.3	5.0
Progeny Ag P 4900RY	.	4.5	3.3	5.7	.	5.3 b	5.3 abc	5.7	4.3	4.9
Terral REV® 47R34™	.	5.3	3	6	.	5.3 b	5.7 ab	5.3	5.3	5.1
Terral REV® 47R53™	.	5.7	3	6.3	.	5.3 b	5.7 ab	6	5.7	5.4
Terral REV® 48A46™	.	4.0	3	5.7	.	4.3 b	5 abc	5.7	5.3	4.7
Terral REV® 49A14	.	5.0	3.7	5.7	.	5 b	4.7 a-d	5.3	5	4.9
Terral REV® 49A55™	.	5.0	3.3	5.3	.	4.7 b	4.3 bcd	5.7	5	4.8
Terral REV® 49A75™	.	5.0	4	5.3	.	4.7 b	5 abc	5.7	5.3	5.0
Terral REV® 49R94™	.	5.7	3	5.7	.	5 b	4 cd	6	5	4.9
Schillinger 495.RC	.	4.0	3.7	5.7	.	4.3 b	4 cd	6	6	4.8
Steyer 4802R2	.	4.3	3.7	5.3	.	4.7 b	4.7 a-d	5.3	5.7	4.8
Univ. of Missouri S11-20337	.	4.3	3	4.7	.	3.3 b	4 cd	5.3	4.7	4.2
USG 74B83RS(74B83R)	.	4.3	3	5.3	.	6 b	5.7 ab	5.3	4	4.8
USG 74D95RS	.	4.7	3	5	.	4.7 b	4 cd	5.7	4.7	4.5
USG 74K95RS	.	4.3	3.7	4.7	.	4.3 b	3.3 d	5.7	5.3	4.5
USG A74A74RS	.	5.0	3	5	.	4.7 b	5.3 abc	6	4.7	4.8
LSD		1.1	1.1	1.2		1.6	1.4	0.9	1.3	
CV		13.8	19.4	13.8		22.0	17	9.5	15.3	
p-value		0.0724	0.0744	0.118		0.3558	0.0196	0.1241	0.1127	

Table 29. Reaction of Maturity Group IV Late soybean cultivars to target spot at indicated locations--2015

Cultivar	Target spot severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
Armor 49X	.	4.7	3.0	4.7 b-e	.	.	4.7	5.3	4.0	4.4
Armor AR4705	.	5.0	3.0	5.0 a-d	.	.	4.3	4.7	2.7	4.1
Armor AR4904	.	4.7	2.7	5.0 a-d	.	.	3.7	4.7	3.7	4.1
Asgrow AG4835	.	4.0	3.7	5.0 a-d	.	.	5.0	4.7	5.3	4.6
Asgrow AG4934	.	5.3	3.3	5.7 ab	.	.	5.0	4.3	4.7	4.7
Credenz CZ 4959 RY	.	5.0	3.0	4.7 b-e	.	.	5.3	5.3	4.3	4.6
Croplan R2C4752S	.	5.0	3.7	5.3 abc	.	.	4.0	5.0	4.3	4.6
Delta Grow DG 4755RR2	.	4.7	3.3	5.0 a-d	.	.	5.0	4.7	5.3	4.7
Delta Grow DG 4765RR2/STS	.	4.7	2.7	5.0 a-d	.	.	4.7	5.0	4.7	4.5
Delta Grow DG 4775RR2/STS	.	5.0	3.7	4.7 b-e	.	.	5.7	5.0	5.0	4.9
Delta Grow DG 4790 RR2	.	4.7	3.0	4.7 b-e	.	.	5.7	5.0	5.0	4.7
Delta Grow DG 4825RR2/STS	.	5.0	3.0	5.0 a-d	.	.	5.3	5.0	3.7	4.5
Delta Grow DG 4880RR	.	5.0	3.0	6.0 a	.	.	4.3	4.7	4.3	4.6
Delta Grow DG 4935 RR2/STS	.	4.3	3.0	4.7 b-e	.	.	4.3	4.0	4.7	4.2
Delta Grow DG 4970RR	.	4.3	2.7	4.7 b-e	.	.	5.0	4.3	3.7	4.1
Delta Grow DG 4995 RR	.	4.7	2.7	4.3 cde	.	.	3.0	5.3	4.3	4.0
Dyna-Gro 37RY47	.	5.3	3.7	5.7 ab	.	.	5.0	4.3	5.0	4.8
Dyna-Gro S48RS53	.	5.3	3.7	5.7 ab	.	.	5.3	4.0	3.7	4.6
Dyna-Gro S49RY25	.	5.0	3.7	5.3 abc	.	.	4.3	4.0	4.3	4.4
Go Soy 4714GTS(MPG 4714)	.	5.0	3.3	5.0 a-d	.	.	5.0	4.7	4.7	4.6
Go Soy 4914GTS	.	5.0	1.7	4.7 b-e	.	.	3.7	4.7	4.7	4.1
Go Soy 4915R2	.	5.5	3.3	5.3 abc	.	.	4.7	4.3	5.0	4.7
Great Heart Seed GT-476CR2	.	4.5	3.7	4.7 b-e	.	.	4.7	4.7	4.0	4.4
Great Heart Seed GT-477CR2	.	4.5	3.3	5.0 a-d	.	.	4.3	5.7	4.0	4.5
Great Heart Seed GT-482CR2S	.	4.7	3.3	5.3 abc	.	.	5.3	4.7	3.7	4.5
Hornbeck HBK RY4721	.	4.7	3.0	5.0 a-d	.	.	5.3	4.3	3.7	4.3
MorSoy Extra 47X12	.	4.3	2.7	5.3 abc	.	.	3.7	4.3	5.0	4.2
MorSoy Extra 48X02	.	5.7	3.7	5.3 abc	.	.	5.0	4.7	3.3	4.6
MorSoy Extra 49X85	.	4.7	3.7	4.7 b-e	.	.	4.7	4.7	4.0	4.4
Mycogen 5N479R2	.	4.3	3.3	4.7 b-e	.	.	4.0	4.7	4.7	4.3
Mycogen 5N490R2(MYCX54480NR2)	.	5.0	3.7	5.0 a-d	.	.	5.7	4.3	4.3	4.7
NK S47-K5	.	4.3	3.0	5.3 abc	.	.	4.0	5.0	3.7	4.2

Table 29 continued

Cultivar	Target spot severity rating (0-9)									AVG
	Brooksville	Clarksdale (non-irr)	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (non-irr)	Stoneville (clay)	Stoneville (loam)	
NK S48-D9	.	5.0	3.0	5.3 abc	.	.	5.0	4.3	4.7	4.6
Progeny Ag P 4757RY	.	4.7	3.0	5.3 abc	.	.	5.0	4.7	3.7	4.4
Progeny Ag P 4788RY	.	4.3	4.0	6.0 a	.	.	5.0	5.0	3.3	4.6
Progeny Ag P 4850RYS	.	4.7	3.3	4.3 cde	.	.	4.7	5.0	4.3	4.4
Progeny Ag P 4900RY	.	5.5	3.3	4.3 cde	.	.	4.0	4.7	4.3	4.4
Terral REV® 47R34™	.	4.7	3.0	5.3 abc	.	.	6.0	4.7	4.3	4.7
Terral REV® 47R53™	.	5.3	3.3	5.3 abc	.	.	5.0	5.0	3.7	4.6
Terral REV® 48A46™	.	3.7	3.7	4.7 b-e	.	.	4.3	5.3	4.0	4.3
Terral REV® 49A14	.	5.3	3.0	4.7 b-e	.	.	4.7	4.7	3.3	4.3
Terral REV® 49A55™	.	4.7	2.7	4.0 de	.	.	5.0	4.7	4.7	4.3
Terral REV® 49A75™	.	5.0	4.0	4.3 cde	.	.	4.7	4.3	4.0	4.4
Terral REV® 49R94™	.	5.0	2.7	5.3 abc	.	.	5.0	5.0	4.3	4.6
Schillinger 495.RC	.	4.0	3.0	5.0 a-d	.	.	5.7	5.3	4.0	4.5
Steyer 4802R2	.	4.3	3.3	5.3 abc	.	.	5.0	5.0	4.3	4.5
Univ. of Missouri S11-20337	.	4.3	3.7	3.7 e	.	.	3.3	4.0	3.7	3.8
USG 74B83RS(74B83R)	.	5.0	3.0	5.7 ab	.	.	3.7	4.0	3.7	4.2
USG 74D95RS	.	5.3	3.3	5.0 a-d	.	.	3.7	4.3	4.7	4.4
USG 74K95RS	.	4.0	3.7	4.7 b-e	.	.	3.7	4.3	4.3	4.1
USG A74A74RS	.	4.7	4.0	5.0 a-d	.	.	5.7	4.0	3.3	4.4
LSD		1.2	1	1			1.8	1.5	1.3	
CV		15.6	19.7	12.7			23.5	15.3	19.8	
p-value		0.5464	0.0605	0.014			0.2504	0.5243	0.0573	

Table 30. Reaction of Maturity Group IV LibertyLink soybean cultivars to Cercospora leaf blight at indicated locations--2015

Cultivar	Cercospora leaf blight severity (0-9)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 47X5L	5.7 de	7 abc	8 a	6.9
Armor 49X5L	4.3 de	5.7 def	6 fg	5.3
Credenz CZ 3945 LL	7.3 a	8 a	7.3 bc	7.5
Credenz CZ 4105 LL	7.7 a	7.3 ab	7.3 bc	7.4
Credenz CZ 4540LL	.	6.3 b-e	7 cd	6.7
Credenz CZ 4748 LL	6 b	7 abc	7.7 ab	6.9
Credenz CZ 4818 LL	4.7 de	6 c-f	7 cd	5.9
Delta Grow DG 4567LL	7.3 a	8 a	7 cd	7.4
Delta Grow DG 4781LL	5.7 bc	6.7 bcd	8 a	6.8
Delta Grow DG 4967LL	4.7 de	5 f	5.7 g	5.1
Delta Grow DG 4977LL/STS	4.3 de	6 c-f	6.3 ef	5.5
Delta Grow DG 4981LL/STS	4 e	5.3 ef	6 fg	5.1
Delta Grow DG 4990LL	5 cd	5.7 def	6.7 de	5.8
Dyna-Gro S49LL34	4 e	5.7 def	6 fg	5.2
Go Soy 4714LL	6 b	7.3 ab	8 a	7.1
Halo 4.8	6 b	7.3 ab	8 a	7.1
Halo 4.95	5.7 de	5.7 def	6.7 de	6.0
Halo 4.98	4.3 de	5.3 ef	6 fg	5.2
Hornbeck HBK LL4653	6 b	6.3 b-e	8 a	6.8
Hornbeck HBK LL4950	4.7 de	6 c-f	6.3 ef	5.7
Hornbeck HBK LL4953	4.3 de	5.3 ef	6 fg	5.2
Progeny Ag P 4560LL	.	7.3 ab	8 a	7.7
Progeny Ag P 4814LLS	6 b	6 c-f	6 fg	6.0
Progeny Ag P 4930LL	4.3 de	6.3 b-e	6 fg	5.5
Terral REV® 49L29™	5 cd	5.7 def	6 fg	5.6
	LSD 1	1	0.5	
	CV 10.8	9.7	4.8	
	<i>p</i> -value <0.0001	<0.0001	<0.0001	

Table 31. Reaction of Maturity Group IV LibertyLink soybean cultivars to frogeye leaf spot at indicated locations--2015

Cultivar	Frogeye leaf spot severity (0-9)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 47X5L	0.3 bc	0.3 b	1.3 c	0.6
Armor 49X5L	0 c	0.3 b	1 c	0.4
Credenz CZ 3945 LL	0 c	0 b	1 c	0.3
Credenz CZ 4105 LL	0 c	0 b	1 c	0.3
Credenz CZ 4540LL	.	0 b	2 c	1.0
Credenz CZ 4748 LL	0.3 bc	0 b	1.7 c	0.7
Credenz CZ 4818 LL	0.3 bc	0 b	1.7 c	0.7
Delta Grow DG 4567LL	0.3 bc	0 b	5.3 a	1.9
Delta Grow DG 4781LL	0 c	0 b	1.3 c	0.4
Delta Grow DG 4967LL	0.3 bc	0 b	1.3 c	0.5
Delta Grow DG 4977LL/STS	1 ab	0.3 b	3.3 abc	1.5
Delta Grow DG 4981LL/STS	1 ab	1 b	3.3 abc	1.8
Delta Grow DG 4990LL	0 c	0 b	1.7 c	0.6
Dyna-Gro S49LL34	0.3 bc	0.3 b	1 c	0.5
Go Soy 4714LL	0.7 abc	0.3 b	1.3 c	0.8
Halo 4.8	0 c	0.7 b	1.3 c	0.7
Halo 4.95	1.3 a	4.7 a	5 ab	3.7
Halo 4.98	1 ab	0 b	3.3 abc	1.4
Hornbeck HBK LL4653	1 ab	0.7 b	3.3 abc	1.7
Hornbeck HBK LL4950	0 c	0.3 b	1.7 c	0.7
Hornbeck HBK LL4953	1 ab	0 b	1 c	0.7
Progeny Ag P 4560LL	.	0 b	1 c	0.5
Progeny Ag P 4814LLS	0.3 bc	0 b	1 c	0.4
Progeny Ag P 4930LL	0 c	0 b	2.3 bc	0.8
Terral REV® 49L29™	0 c	0.7 b	1.3 c	0.7
	LSD 0.8	1	2.7	
	CV 116.8	158.4	82.2	
	<i>p</i> -value 0.004	<0.0001	0.0487	

Table 32. Rating of Maturity Group IV LibertyLink soybean cultivars for green stem severity at indicated locations--2015

Cultivar	Green stem severity rating (0-100%)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 47X5L	47 d	3	19 efg	23.0
Armor 49X5L	-	3	13 fgh	8.0
Credenz CZ 3945 LL	2 h	4	2 h	2.7
Credenz CZ 4105 LL	4 h	1	3 h	2.7
Credenz CZ 4540LL	.	1	4 gh	2.5
Credenz CZ 4748 LL	27 g	1	58 b	28.7
Credenz CZ 4818 LL	82 b	1	40 cd	41.0
Delta Grow DG 4567LL	7 h	4	2 h	4.3
Delta Grow DG 4781LL	27 g	2	28 def	19.0
Delta Grow DG 4967LL	73 b	2	38 cd	37.7
Delta Grow DG 4977LL/STS	35 efg	1	6 gh	14.0
Delta Grow DG 4981LL/STS	77 b	2	57 b	45.3
Delta Grow DG 4990LL	37 ef	6	32 cde	25.0
Dyna-Gro S49LL34	92 a	3	7 gh	34.0
Go Soy 4714LL	38 de	4	35 cde	25.7
Halo 4.8	30 efg	3	45 bc	26.0
Halo 4.95	60 c	4	7 gh	23.7
Halo 4.98	28 fg	16	5 gh	16.3
Hornbeck HBK LL4653	3 h	10	1 h	4.7
Hornbeck HBK LL4950	-	2	15 fgh	8.5
Hornbeck HBK LL4953	78 b	3	9 gh	30.0
Progeny Ag P 4560LL	.	10	20 efg	15.0
Progeny Ag P 4814LLS	-	1	90 a	45.5
Progeny Ag P 4930LL	78 b	2	19 efg	33.0
Terral REV® 49L29™	-	2	32 cde	17.0
	LSD 9.6	10.5	16.6	
	CV 13.4	172.7	43.1	
	<i>p</i> -value <0.0001	0.5713	<0.0001	

Table 33. Reaction of Maturity Group IV LibertyLink soybean cultivars to Septoria brown spot at indicated locations--2015

Cultivar	Septoria brown spot severity (0-9)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 47X5L	3 a-e	7 a	5.7 ab	5.2
Armor 49X5L	1 f	4 fgh	5.3 abc	3.4
Credenz CZ 3945 LL	4 ab	7 a	5.7 ab	5.6
Credenz CZ 4105 LL	3.3 a-d	6 a-d	5.7 ab	5.0
Credenz CZ 4540LL		6.3 abc	6 a	6.2
Credenz CZ 4748 LL	2.7 b-f	7 a	5.7 ab	5.1
Credenz CZ 4818 LL	1.3 ef	4.7 d-h	5.7 ab	3.9
Delta Grow DG 4567LL	4.7 a	7 a	5 bcd	5.6
Delta Grow DG 4781LL	3.7 abc	6.7 ab	6 a	5.5
Delta Grow DG 4967LL	1 f	3.3 h	4.3 d	2.9
Delta Grow DG 4977LL/STS	1 f	4.7 d-h	4.7 cd	3.5
Delta Grow DG 4981LL/STS	1.7 def	4.3 e-h	5.3 abc	3.8
Delta Grow DG 4990LL	1.3 ef	4 fgh	5.7 ab	3.7
Dyna-Gro S49LL34	1 f	3.7 gh	5.7 ab	3.5
Go Soy 4714LL	3 a-e	7 a	6 a	5.3
Halo 4.8	2 c-f	6.7 ab	6 a	4.9
Halo 4.95	1.7 def	5.3 b-f	6 a	4.3
Halo 4.98	1 f	4.3 e-h	5.3 abc	3.5
Hornbeck HBK LL4653	2 c-f	6 a-d	5 bcd	4.3
Hornbeck HBK LL4950	1 f	4 fgh	4.7 cd	3.2
Hornbeck HBK LL4953	1.3 ef	4 fgh	6 a	3.8
Progeny Ag P 4560LL		7 a	5.7 ab	6.4
Progeny Ag P 4814LLS	1.7 def	4 fgh	5 bcd	3.6
Progeny Ag P 4930LL	1 f	5 c-g	5 bcd	3.7
Terral REV® 49L29™	1.3 ef	5.7 a-e	6 a	4.3
	LSD 1.9	1.5	0.9	
	CV 57.4	17.1	10	
	<i>p</i> -value 0.0015	<0.0001	0.0057	

Table 34. Reaction of Maturity Group IV LibertyLink soybean cultivars to target spot at indicated locations--2015.

Cultivar	Target spot severity (0-9)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 47X5L	. .	5 b-e	5 a-d	5.0
Armor 49X5L	. .	4 def	5.3 abc	4.7
Credenz CZ 3945 LL	. .	5.7 abc	4.3 cd	5.0
Credenz CZ 4105 LL	. .	5.7 abc	4 d	4.9
Credenz CZ 4540LL	. .	5.7 abc	4.3 cd	5.0
Credenz CZ 4748 LL	. .	6 ab	5.3 abc	5.7
Credenz CZ 4818 LL	. .	4 def	5.3 abc	4.7
Delta Grow DG 4567LL	. .	6 ab	4 d	5.0
Delta Grow DG 4781LL	. .	6 ab	5.7 ab	5.9
Delta Grow DG 4967LL	. .	3.7 ef	4.3 cd	4.0
Delta Grow DG 4977LL/STS	. .	4 def	4.7 bcd	4.4
Delta Grow DG 4981LL/STS	. .	4 def	5 a-d	4.5
Delta Grow DG 4990LL	. .	5.3 a-d	5.3 abc	5.3
Dyna-Gro S49LL34	. .	4 def	5.3 abc	4.7
Go Soy 4714LL	. .	5.7 abc	5.3 abc	5.5
Halo 4.8	. .	5.3 a-d	5.7 ab	5.5
Halo 4.95	. .	5.7 abc	4.7 bcd	5.2
Halo 4.98	. .	4 def	5 a-d	4.5
Hornbeck HBK LL4653	. .	5.3 a-d	5.3 abc	5.3
Hornbeck HBK LL4950	. .	3.7 ef	4.7 bcd	4.2
Hornbeck HBK LL4953	. .	3.3 f	5 a-d	4.2
Progeny Ag P 4560LL	. .	6.7 a	5 a-d	5.9
Progeny Ag P 4814LLS	. .	4.3 c-f	4.3 cd	4.3
Progeny Ag P 4930LL	. .	4.7 b-f	4.3 cd	4.5
Terral REV® 49L29™	. .	4.7 b-f	6 a	5.4
LSD	. .	1.5	1.1	
CV	. .	18.1	13.4	
p-value	. .	0.0002	0.0182	

Table 35. Reaction of Maturity Group V conventional soybean cultivars to *Cercospora* leaf blight (CLB), frogeye leaf spot (FLS), *Septoria* brown spot (SBS), and green stem (GS) at Brooksville, MS–2015

Cultivar	CLB	FLS	SBS	GS
	Severity (0-9)			0-100%
Go Soy Leland	6.0	0.0	4.3	13 e
Univ. of Missouri S11-16653	6.0	0.3	5.3	17 de
Univ. of Missouri S11-17025	6.0	0.3	3.3	63 ab
Univ. of Missouri S11-20124	6.0	0.0	4.3	2 f
Univ. of Arkansas Osage	6.0	0.0	5.0	10 ef
Univ. of Arkansas R09-430	6.0	0.7	4.7	27 d
Univ. of Arkansas R10-230	6.0	0.3	5.0	53 bc
Univ. of Arkansas UA 5213C	6.0	0.7	4.0	8 ef
Univ. of Arkansas UA 5612	6.0	0.3	4.0	70 a
USDA-ARS JTN-5110	6.0	0.7	5.0	43 c
LSD	0	0.8	1.6	11.4
CV	---	144.9	48.7	21.6
<i>p</i> value	---	0.5071	0.4581	<0.0001

Table 36. Reaction of Maturity Group V Early soybean cultivars to Cercospora leaf blight at indicated locations--2015.

Cultivar	Cercospora leaf blight severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Armor 50-R21(AX4500)	6.3 cd	6.0 bc	7.0 cd	7.7 ab	5.3 d	6.7 bc	7.7 ab	6.7
Armor 51-R50	7.7 a	6.0 bc	7.7 ab	7.3 abc	6.3 abc	7.0 b	8.0 a	7.1
Armor AR5205	6.0 d	6.0 bc	6.3 ef	6.7 cde	5.7 cd	6.0 d	7.0 cd	6.2
Armor AR5605	6.0 d	6.0 bc	6.0 f	6.3 de	6.0 bcd	6.0 d	7.0 cd	6.2
Armor AR5615	6.0 d	6.0 bc	6.0 f	6.0 e	6.3 abc	6.0 d	7.0 cd	6.2
Asgrow AG5233	7.0 b	6.3 b	7.7 ab	8.0 a	6.0 bcd	7.7 a	8.0 a	7.2
Asgrow AG5332	6.7 bc	6.0 bc	7.0 cd	6.7 cde	6.0 bcd	6.3 cd	7.3 bc	6.6
Asgrow AG5335	7.0 b	6.0 bc	7.0 cd	7.0 bcd	6.0 bcd	7.0 b	7.7 ab	6.8
Asgrow AG5533	6.0 d	6.0 bc	6.3 ef	6.3 de	6.7 ab	6.3 cd	7.0 cd	6.4
Asgrow AG5535	6.3 cd	6.0 bc	6.0 f	6.3 de	6.0 bcd	6.3 cd	7.0 cd	6.3
Croplan R2C5081	7.0 b	6.0 bc	7.3 bc	6.7 cde	6.7 ab	7.0 b	7.0 cd	6.8
Delta Grow DG 5170 RR2/STS	6.0 d	6.0 bc	7.0 cd	6.7 cde	5.7 cd	6.3 cd	7.0 cd	6.4
Delta Grow DG 5230RR2	6.0 d	6.0 bc	6.3 ef	7.0 bcd	6.0 bcd	6.7 bc	7.0 cd	6.4
Delta Grow DG 5575 RR2	6.0 d	6.0 bc	6.0 f	6.3 de	6.3 abc	6.0 d	7.0 cd	6.2
Delta Grow DG 5625 RR2	6.0 d	6.0 bc	6.0 f	6.3 de	6.0 bcd	6.0 d	6.7 d	6.2
Dyna-Gro 92RY55	6.0 d	6.0 bc	6.3 ef	6.3 de	6.0 bcd	6.3 cd	7.0 cd	6.2
Dyna-Gro S52RY75	6.0 d	6.0 bc	6.3 ef	6.7 cde	6.3 abc	7.0 b	7.0 cd	6.4
Dyna-Gro S56RY84	6.0 d	6.0 bc	6.0 f	6.0 e	6.3 abc	6.3 cd	7.0 cd	6.2
Great Heart Seed GT-516CR2	6.0 d	6.0 bc	7.7 ab	8.0 a	5.3 d	8.0 a	8.0 a	7.0
MorSoy Extra 55X75	6.3 cd	6.0 bc	6.0 f	6.3 de	6.0 bcd	6.0 d	6.7 d	6.3
Mycogen 5N501R2(MYCX54490NR2)	6.0 d	6.0 bc	8.0 a	8.0 a	5.7 cd	8.0 a	8.0 a	7.0
Mycogen 5N522R2(MYCX54522NR2)	6.0 d	6.0 bc	6.0 f	7.0 bcd	6.0 bcd	6.3 cd	7.0 cd	6.4
Mycogen 5N550R2	6.0 d	6.0 bc	6.0 f	6.0 e	6.0 bcd	6.3 cd	7.0 cd	6.2
NK S50-J7	7.0 b	6.3 b	7.7 ab	7.7 ab	5.7 cd	7.7 a	8.0 a	7.1
NK S52-Y2	6.0 d	6.0 bc	7.0 cd	7.0 ab	5.3 d	7.0 b	7.7 ab	6.7
NK S55-Q3	6.0 d	6.0 bc	6.0 f	6.0 e	6.0 bcd	6.0 d	7.0 cd	6.1
Progeny Ag P 5213RY	7.0 b	6.0 bc	7.7 ab	8.0 a	6.0 bcd	8.0 a	8.0 a	7.1
Progeny Ag P 5226RYS	6.0 d	6.0 bc	6.7 de	6.3 de	5.3 d	6.3 cd	7.3 bc	6.5
Progeny Ag P 5333RY	6.3 cd	6.0 bc	7.0 cd	7.0 bcd	6.3 abc	6.7 bc	7.0 cd	6.5
Progeny Ag P 5555RY	6.0 d	6.0 bc	6.0 f	6.3 de	6.0 bcd	6.0 d	7.0 cd	6.2
Progeny Ag P 5610RY	6.0 d	6.0 bc	6.0 f	6.0 e	6.0 bcd	6.0 d	7.0 cd	6.1
Schillinger 5220.RC	6.0 d	6.0 bc	6.7 de	7.0 bcd	6.0 bcd	6.0 d	7.0 cd	6.4

Table 36 Continued

Cultivar	Cercospora leaf blight severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Terral REV® 51A56™	7.7 a	7.0 a	8.0 a	8.0 a	5.7 cd	8.0 a	7.3 bc	7.4
Terral REV® 52A94™	6.0 d	5.7 c	7.0 cd	7.0 bcd	6.7 ab	7.0 b	7.0 cd	6.5
Terral REV® 54R84™	6.0 d	5.7 c	6.0 f	6.0 e	6.3 abc	6.0 d	7.0 cd	6.2
Terral REV® 55R53™	6.0 d	6.0 bc	6.0 f	6.3 de	6.3 abc	6.0 d	7.0 cd	6.2
Terral REV® 56R63™	6.0 d	6.0 bc	6.0 f	6.0 e	6.3 abc	6.0 d	7.0 cd	6.2
Univ. of Arkansas R10-197RY	6.3 cd	6.0 bc	6.3 ef	6.3 de	6.0 bcd	6.0 d	6.7 d	6.3
Univ. of Arkansas R11-89RY	6.0 d	6.0 bc	6.7 de	6.7 cde	6.3 abc	6.0 d	6.7 d	6.3
Univ. of Arkansas UA 5414RR (R04-1268RR)	6.0 d	6.0 bc	6.0 f	6.3 e	6.3 abc	6.0 d	7.0 cd	6.2
Univ. of Missouri S11-20195	6.0 d	6.0 bc	6.7 de	6.3 d	6.3 abc	7.0 b	7.0 cd	6.5
USG 75J45R	6.0 d	6.0 bc	6.3 ef	6.7 cde	6.0 bcd	6.3 cd	7.0 cd	6.4
	LSD 0.5	0.4	0.6	0.7	0.7	0.6	0.4	
	CV 4.8	3.9	5.4	6.3	7.2	5.3	3.7	
	<i>p</i> -value <0.0001	0.0076	<0.0001	<0.0001	0.0011	<0.0001	<0.0001	

Table 37. Reaction of Maturity Group V Early soybean cultivars to frogeye leaf spot at indicated locations--2015.

Cultivar	Frogeye leaf spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Armor 50-R21(AX4500)	2.7 bcd	3.7 def	4.3 d-g	3.3 efg	1.3 c	4.7 b-e	2.0 e-h	3.1
Armor 51-R50	0.3 gh	0.7 klm	0.0 m	1.3 ijk	0.0 e	1.0 m	1.0 hi	0.6
Armor AR5205	6.0 a	5.0 ab	8.0 a	6.0 a	3.7 a	6.0 a	4.3 ab	5.6
Armor AR5605	0.3 gh	0.0 m	0.3 lm	1.0 jk	0.3 de	1.7 klm	1.0 hi	0.7
Armor AR5615	0.0 h	0.7 klm	0.0 m	1.0 jk	1.0 cd	1.3 lm	1.3 ghi	0.8
Asgrow AG5233	1.3 efg	5.3 a	7.7 ab	4.3 cd	2.3 b	6.0 a	4.3 ab	4.5
Asgrow AG5332	0.7 fgh	4.0 cde	6.0 bcd	3.0 fg	1.3 c	4.0 d-g	2.7 def	3.1
Asgrow AG5335	1.7 def	4.3 bcd	6.3 abc	4.7 bc	2.3 b	5.0 a-d	4.0 abc	4.0
Asgrow AG5533	0.3 gh	1.3 ijk	1.0 klm	1.7 ij	0.3 de	2.0 j-m	1.3 ghi	1.1
Asgrow AG5535	0.0 h	0.7 klm	0.3 lm	1.3 ijk	0.0 e	1.3 lm	1.0 hi	0.7
Croplan R2C5081	0.0 h	1.0 jkl	0.7 lm	1.0 jk	0.0 e	1.3 lm	0.7 i	0.7
Delta Grow DG 5170 RR2/STS	3.7 b	4.7 abc	6.3 abc	5.3 ab	3.0 ab	6.0 a	4.3 ab	4.2
Delta Grow DG 5230RR2	0.3 gh	1.3 ijk	0.0 m	1.0 jk	0.0 e	1.0 m	0.7 i	1.6
Delta Grow DG 5575 RR2	0.0 h	1.3 ijk	1.0 klm	1.0 jk	0.0 e	2.0 j-m	1.3 ghi	0.9
Delta Grow DG 5625 RR2	0.0 h	1.3 ijk	2.7 g-k	2.0 hi	0.0 e	3.3 f-i	1.0 hi	1.5
Dyna-Gro 92RY55	0.0 h	1.0 jkl	1.7 i-m	0.7 k	0.0 e	1.3 lm	1.0 hi	0.8
Dyna-Gro S52RY75	0.0 h	1.0 jkl	0.0 m	1.7 ij	0.0 e	1.0 m	1.3 ghi	0.7
Dyna-Gro S56RY84	0.0 h	1.0 jkl	1.3 j-m	1.0 jk	0.0 e	2.3 i-l	1.0 hi	1.0
Great Heart Seed GT-516CR2	1.7 def	4.3 bcd	4.0 efg	3.3 efg	0.7 cde	5.0 a-d	1.0 hi	2.8
MorSoy Extra 55X75	0.0 h	0.7 klm	0.0 m	1.0 jk	0.0 e	1.0 m	1.3 ghi	0.6
Mycogen 5N501R2(MYCX54490NR2)	3.0 bc	4.0 cde	3.3 f-i	4.0 cde	1.3 c	4.7 b-e	2.0 e-h	2.9
Mycogen 5N522R2(MYCX54522NR2)	0.3 gh	1.0 jkl	0.0 m	1.0 jk	0.0 e	1.3 lm	1.0 hi	1.0
Mycogen 5N550R2	0.3 gh	1.0 jkl	1.3 j-m	1.0 jk	0.3 de	2.3 i-l	1.3 ghi	1.0
NK S50-J7	0.3 gh	2.0 hi	1.3 j-m	3.0 fg	0.7 cde	3.0 g-j	1.3 ghi	1.6
NK S52-Y2	2.7 bcd	5.0 ab	6.0 bcd	4.3 cd	2.3 b	5.3 abc	3.3 bcd	3.6
NK S55-Q3	0.7 fgh	0.3 lm	0.3 lm	1.0 jk	0.0 e	1.7 klm	0.7 i	1.4
Progeny Ag P 5213RY	1.0 fgh	3.3 efg	3.7 e-h	4.0 cde	0.7 cde	4.7 b-e	3.0 cde	2.5
Progeny Ag P 5226RYS	5.7 a	5.3 a	7.7 ab	5.7 a	3.0 ab	6.0 a	4.0 abc	4.9
Progeny Ag P 5333RY	1.0 fgh	2.7 gh	3.3 f-i	2.7 gh	0.0 e	3.7 e-h	1.0 hi	2.9
Progeny Ag P 5555RY	0.3 gh	1.3 ijk	0.7 lm	1.3 ijk	0.0 e	2.7 h-k	1.0 hi	1.0
Progeny Ag P 5610RY	0.0 h	0.7 klm	0.0 m	1.0 jk	0.0 e	1.7 klm	1.3 ghi	0.6
Schillinger 5220.RC	2.3 cde	4.3 bcd	3.0 g-j	3.3 efg	1.3 c	4.3 c-f	2.3 d-g	2.6

Table 37 Continued

Cultivar	Frogeye leaf spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Terral REV® 51A56™	0.0 h	0.3 lm	0.0 m	1.0 jk	0.3 de	1.3 lm	1.3 ghi	0.9
Terral REV® 52A94™	0.0 h	1.0 jkl	0.3 lm	1.0 jk	0.0 e	1.0 m	1.0 hi	0.7
Terral REV® 54R84™	0.7 fgh	3.0 fg	4.3 d-g	2.0 hi	0.0 e	3.3 f-i	1.3 ghi	2.0
Terral REV® 55R53™	1.3 efg	3.7 def	5.3 cde	1.7 ij	0.0 e	4.7 b-e	1.7 f-i	2.6
Terral REV® 56R63™	0.0 h	1.0 jkl	0.3 lm	1.0 jk	0.0 e	1.7 klm	1.0 hi	0.8
Univ. of Arkansas R10-197RY	0.0 h	1.7 ij	0.3 lm	1.7 ij	0.0 e	1.7 klm	1.0 hi	0.9
Univ. of Arkansas R11-89RY	0.0 h	0.3 lm	0.7 lm	1.0 jk	0.0 e	3.0 g-j	1.0 hi	0.9
Univ. of Arkansas UA 5414RR (R04-1268RR)	0.3 gh	3.0 fg	2.0 h-l	2.0 hi	0.0 e	4.3 c-f	1.3 ghi	1.8
Univ. of Missouri S11-20195	0.7 fgh	4.3 bcd	5.0 c-f	3.7 def	0.0 e	5.7 ab	4.7 a	3.0
USG 75J45R	0.0 h	1.0 jkl	1.3 j-m	1.0 jk	0.0 e	2.0 j-m	1.0 hi	1.4
	LSD 1.1	0.8	1.8	0.9	0.9	1.3	1.1	
	CV 73.6	23.3	45.7	25.8	92.4	25	39.2	
	<i>p</i> -value <0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	

Table 38. Rating of Maturity Group V Early soybean cultivars for green stem severity at indicated locations--2015.

Cultivar	Green stem severity rating (0-100%)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Armor 50-R21(AX4500)	48 c-f	55 f-i	1 ij	.	67 a-e	2 mn	7 j-m	30.0
Armor 51-R50	18 g-l	95 a	9 ghi	.	80 abc	83 a	87 ab	62.0
Armor AR5205	40 d-h	80 a-e	22 de	.	77 a-d	50 cde	9 i-m	46.3
Armor AR5605	90 a	87 a-d	5 g-j	.	33 h-m	6 mn	24 f-l	40.8
Armor AR5615	17 g-l	90 abc	5 g-j	.	43 e-j	10 k-n	4.0 klm	28.2
Asgrow AG5233	15 h-l	75 a-f	3 ij	.	88 ab	24 h-k	73 abc	46.3
Asgrow AG5332	13 h-l	90 abc	20 def	.	40 f-k	37 e-h	45 ef	40.8
Asgrow AG5335	73 abc	28 j-n	13 efg	.	92 a	63 bc	12 h-m	46.8
Asgrow AG5533	3 l	32 j-m	1 ij	.	20 j-o	4 mn	3.0 lm	10.5
Asgrow AG5535	31 e-k	93 a	7 g-j	.	53 d-i	73 ab	31 fgh	48.0
Croplan R2C5081	8 kl	28 j-n	12 fgh	.	63 b-f	13 j-n	57 de	30.2
Delta Grow DG 5170 RR2/STS	72 abc	87 a-d	6 g-j	.	75 a-d	50 cde	15 h-m	57.8
Delta Grow DG 5230RR2	22 f-l	15 mno	0 j	.	10 mno	8 lmn	43 efg	11.7
Delta Grow DG 5575 RR2	10 jkl	95 a	67 a	.	13 l-o	30 f-i	43 efg	43.0
Delta Grow DG 5625 RR2	14 h-l	95 a	4 hij	.	17 k-o	2 mn	5 klm	29.2
Dyna-Gro 92RY55	6 kl	90 abc	32 c	.	19 j-o	3 mn	10 h-m	25.8
Dyna-Gro S52RY75	19 g-l	30 j-n	2 ij	.	12 l-o	17 i-m	22 g-m	15.0
Dyna-Gro S56RY84	17 g-l	90 abc	60 ab	.	30 i-n	57 cd	72 a-d	46.0
Great Heart Seed GT-516CR2	17 g-l	25 k-o	1 ij	.	73 a-d	3 mn	2 m	31.8
MorSoy Extra 55X75	75 abc	92 ab	8 g-j	.	31 i-m	7 mn	30 f-i	35.8
Mycogen 5N501R2(MYCX54490NR2)	12 i-l	48 g-j	0 j	.	77 a-d	2 mn	2 m	28.2
Mycogen 5N522R2(MYCX54522NR2)	1 l	23 k-o	1 ij	.	43 e-j	4 mn	16 h-m	12.3
Mycogen 5N550R2	35 d-j	90 abc	53 b	.	53 d-i	33 fgh	65 b-e	46.7
NK S50-J7	3 l	10 no	2 ij	.	57 c-h	14 j-n	2 m	25.2
NK S52-Y2	38 d-i	68 d-g	1 ij	.	37 g-l	3 mn	10 h-m	24.8
NK S55-Q3	22 f-l	93 a	53 b	.	58 c-h	1 n	62 cde	39.5
Progeny Ag P 5213RY	40 d-h	40 h-l	1 ij	.	90 a	32 f-i	10 h-m	44.2
Progeny Ag P 5226RYS	43 d-g	60 e-h	4 hij	.	90 a	45 def	3 lm	42.0
Progeny Ag P 5333RY	18 g-l	60 e-h	4 hij	.	20 j-o	3 mn	12 h-m	18.0
Progeny Ag P 5555RY	11 jkl	90 abc	37 c	.	38 f-k	40 efg	53 de	38.0
Progeny Ag P 5610RY	5 kl	43 h-k	22 de	.	23 j-o	2 mn	18 h-m	24.7
Schillinger 5220.RC	53 b-e	35 i-m	4 hij	.	68 a-e	27 g-j	2 m	34.2

Table 38 Continued

Cultivar	Green stem severity rating (0-100%)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Terral REV® 51A56™	7 kl	68 d-g	1 ij	.	75 a-d	37 e-h	28 f-j	31.7
Terral REV® 52A94™	8 kl	15 mno	1 ij	.	17 k-o	1 n	3 lm	11.7
Terral REV® 54R84™	14 h-l	6 o	1 ij	.	5 no	1 n	22 g-m	5.0
Terral REV® 55R53™	77 ab	30 j-n	1 ij	.	43 e-j	3 mn	90 a	29.3
Terral REV® 56R63™	58 bcd	72 b-f	38 c	.	78 a-d	43 def	53 de	63.2
Univ. of Arkansas R10-197RY	27 e-l	70 c-f	4 hij	.	60 c-g	23 h-l	57 de	39.5
Univ. of Arkansas R11-89RY	5 kl	20 l-o	2 ij	.	60 c-g	3 mn	25 f-k	24.5
Univ. of Arkansas UA 5414RR (R04-1268RR)	3 l	70 c-f	2 ij	.	22 j-o	2 mn	19 h-m	20.7
Univ. of Missouri S11-20195	1 l	15 mno	2 ij	.	15 k-o	1 n	3 lm	8.8
USG 75J45R	16 h-l	93 a	37 c	.	37 g-l	37 e-h	57 de	37.2
	LSD 26.8	20.6	8.7		25.2	15.6	21.9	
	CV 62.7	21	41.8		33.2	44.2	44.9	
	<i>p</i> -value <0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	

Table 39. Reaction of Maturity Group V Early soybean cultivars to septoria brown spot at indicated locations--2015.

Cultivar	Septoria brown spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Armor 50-R21(AX4500)	5.3 c-f	3.3 cd	6.7 a	4.7	5.0 e	5.0	5.3	5.1
Armor 51-R50	7.0 a	4.0 bcd	6.0 abc	5.0	6.0 b-e	6.3	5.3	5.6
Armor AR5205	5.0 d-g	3.7 cd	5.0 c-f	4.7	5.0 e	5.7	4.7	4.8
Armor AR5605	5.3 c-f	4.3 abc	4.7 def	4.0	5.0 e	5.0	5.0	4.9
Armor AR5615	4.7 e-h	3.3 cd	5.7 a-d	3.7	6.7 abc	5.3	4.7	4.6
Asgrow AG5233	6.7 ab	3.3 cd	5.0 c-f	4.0	6.7 abc	5.3	5.0	4.9
Asgrow AG5332	6.0 a-d	3.0 d	6.0 abc	4.0	6.3 a-d	4.3	5.3	5.0
Asgrow AG5335	6.3 abc	4.0 bcd	6.3 ab	4.3	6.0 b-e	5.0	4.3	5.3
Asgrow AG5533	6.3 abc	3.3 cd	6.3 ab	4.7	6.0 b-e	5.3	5.3	5.4
Asgrow AG5535	6.0 a-d	3.0 d	5.7 a-d	4.3	5.3 de	5.0	5.7	5.1
Croplan R2C5081	6.3 abc	4.0 bcd	6.3 ab	4.7	7.3 a	6.3	5.0	5.5
Delta Grow DG 5170 RR2/STS	5.3 c-f	3.7 cd	6.0 abc	4.7	5.3 de	5.3	5.0	5.0
Delta Grow DG 5230RR2	6.3 abc	3.7 cd	5.7 a-d	5.0	6.3 a-d	5.7	5.7	5.5
Delta Grow DG 5575 RR2	5.0 d-g	3.3 cd	5.0 c-f	5.0	6.7 abc	5.3	5.3	4.9
Delta Grow DG 5625 RR2	4.7 e-h	3.7 cd	5.3 b-e	4.7	6.3 a-d	5.0	5.3	4.9
Dyna-Gro 92RY55	4.7 e-h	3.0 d	6.0 abc	4.7	5.7 cde	4.7	5.3	5.0
Dyna-Gro S52RY75	6.0 a-d	3.0 d	6.0 abc	5.0	6.3 a-d	5.7	5.3	5.4
Dyna-Gro S56RY84	4.7 e-h	3.0 d	5.0 c-f	4.0	5.7 cde	5.7	5.3	4.9
Great Heart Seed GT-516CR2	6.0 a-d	3.0 d	6.3 ab	4.3	5.3 de	4.7	5.3	5.0
MorSoy Extra 55X75	5.3 c-f	3.0 d	6.0 abc	4.3	5.3 de	4.7	5.0	5.0
Mycogen 5N501R2(MYCX54490NR2)	5.0 d-g	3.0 d	6.0 abc	4.7	5.0 e	5.3	5.0	5.0
Mycogen 5N522R2(MYCX54522NR2)	5.3 c-f	4.3 abc	5.0 c-f	5.0	6.0 b-e	6.0	5.3	5.1
Mycogen 5N550R2	5.7 b-e	3.7 cd	5.7 a-d	4.7	5.7 cde	4.7	4.3	5.0
NK S50-J7	6.3 abc	4.0 bcd	5.7 a-d	5.0	5.3 de	5.3	5.0	5.1
NK S52-Y2	6.0 a-d	3.0 d	6.7 a	4.3	5.3 de	4.7	5.3	5.1
NK S55-Q3	5.3 c-f	3.7 cd	4.7 def	4.3	6.0 b-e	4.7	5.3	4.8
Progeny Ag P 5213RY	6.7 ab	4.0 bc	5.7 a-d	4.7	5.0 e	5.3	4.7	5.3
Progeny Ag P 5226RYS	5.7 b-e	3.0 d	6.3 ab	4.3	5.7 cde	5.0	4.3	4.9
Progeny Ag P 5333RY	5.0 d-g	3.3 cd	6.3 ab	4.3	6.3 a-d	6.0	5.7	5.0
Progeny Ag P 5555RY	5.0 d-g	3.3 cd	4.7 def	4.0	6.0 b-e	4.7	5.3	4.6
Progeny Ag P 5610RY	4.3 fgh	3.7 cd	4.3 ef	4.3	5.3 de	4.7	5.3	4.6
Schillinger 5220.RC	4.7 e-h	3.3 cd	6.3 ab	4.3	5.3 de	5.0	4.7	5.0

Table 39 Continued

Cultivar	Septoria brown spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Terral REV® 51A56™	6.3 abc	5.3 a	5.0 c-f	4.7	6.3 a-d	6.0	4.7	5.4
Terral REV® 52A94™	6.0 a-d	5.0 ab	6.3 ab	5.0	7.0 ab	5.7	4.7	5.4
Terral REV® 54R84™	4.0 gh	4.0 bc	5.7 a-d	4.7	6.0 b-e	5.7	4.7	4.9
Terral REV® 55R53™	3.7 h	3.7 cd	6.3 ab	5.0	6.3 a-d	5.0	4.3	5.0
Terral REV® 56R63™	4.7 e-h	4.3 abc	5.3 b-e	4.7	5.0 e	4.3	5.0	4.9
Univ. of Arkansas R10-197RY	5.3 c-f	3.7 cd	5.0 c-f	4.3	6.7 abc	5.7	4.7	5.0
Univ. of Arkansas R11-89RY	3.7 h	3.0 d	5.3 b-e	5.3	6.0 b-e	4.7	5.0	4.7
Univ. of Arkansas UA 5414RR (R04-1268RR)	5.7 b-e	4.3 abc	5.7 a-d	4.3	6.0 b-e	5.3	5.3	5.0
Univ. of Missouri S11-20195	4.3 fgh	3.3 cd	5.7 a-d	4.0	6.3 a-d	5.0	4.3	4.9
USG 75J45R	5.0 d-g	3.0 d	6.0 abc	4.7	6.0 b-e	5.7	4.7	5.0
	LSD 1.2	1	1.3	1	1.2	1.3	1	
	CV 14.2	17.2	14.5	13.8	13	14.6	12.4	
	<i>p</i> -value <0.0001	0.0002	0.0059	0.4198	0.0048	0.1375	0.2587	

Table 40. Reaction of Maturity Group V Early soybean cultivars to target spot at indicated locations--2015.

Cultivar	Target spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Armor 50-R21(AX4500)	.	2.7 f	4.7 bcd	4.3 bcd	.	5.0 abc	4.3	4.2
Armor 51-R50	.	4.3 bcd	4.3 cd	5.0 ab	.	5.3 ab	5.0	4.8
Armor AR5205	.	4.0 b-e	4.0 d	4.3 bcd	.	5.3 ab	4.3	4.4
Armor AR5605	.	3.7 c-f	4.0 d	4.3 bcd	.	4.0 c	4.7	4.1
Armor AR5615	.	3.7 c-f	4.7 bcd	4.0 cd	.	5.3 ab	4.3	4.4
Asgrow AG5233	.	3.3 def	4.7 bcd	4.0 cd	.	4.3 bc	4.3	4.1
Asgrow AG5332	.	3.0 ef	4.7 bcd	4.3 bcd	.	4.0 c	4.7	4.1
Asgrow AG5335	.	3.3 def	4.7 bcd	4.3 bcd	.	5.3 ab	4.0	4.3
Asgrow AG5533	.	3.0 ef	4.3 cd	4.3 bcd	.	4.0 c	4.7	4.1
Asgrow AG5535	.	3.0 ef	5.0 a-d	4.3 bcd	.	4.3 bc	5.0	4.3
Croplan R2C5081	.	5.0 ab	5.0 a-d	5.0 ab	.	5.7 a	4.7	5.1
Delta Grow DG 5170 RR2/STS	.	4.7 abc	5.3 abc	5.3 a	.	4.0 c	4.3	4.8
Delta Grow DG 5230RR2	.	4.0 b-e	5.3 abc	5.0 ab	.	4.0 c	4.7	4.5
Delta Grow DG 5575 RR2	.	3.3 def	4.3 cd	4.3 bcd	.	4.7 abc	4.3	4.3
Delta Grow DG 5625 RR2	.	4.0 b-e	4.0 d	4.7 abc	.	4.3 bc	4.0	4.3
Dyna-Gro 92RY55	.	3.3 def	4.0 d	4.0 cd	.	4.7 abc	4.7	4.0
Dyna-Gro S52RY75	.	3.7 c-f	5.3 abc	4.0 cd	.	5.7 a	4.7	4.7
Dyna-Gro S56RY84	.	3.0 ef	4.3 cd	4.0 cd	.	4.3 bc	5.3	4.1
Great Heart Seed GT-516CR2	.	3.3 def	4.7 bcd	3.7 de	.	4.7 abc	5.0	4.3
MorSoy Extra 55X75	.	3.0 ef	4.0 d	4.0 cd	.	4.3 bc	4.3	4.1
Mycogen 5N501R2(MYCX54490NR2)	.	3.0 ef	4.3 cd	4.3 bcd	.	4.0 c	4.7	4.0
Mycogen 5N522R2(MYCX54522NR2)	.	4.3 bcd	4.0 d	5.0 ab	.	4.7 abc	4.0	4.5
Mycogen 5N550R2	.	3.7 c-f	4.3 cd	4.3 bcd	.	4.7 abc	4.0	4.2
NK S50-J7	.	3.7 c-f	5.3 abc	4.3 bcd	.	4.7 abc	4.7	4.4
NK S52-Y2	.	3.3 def	4.0 d	4.0 cd	.	4.3 bc	4.7	4.1
NK S55-Q3	.	3.7 c-f	5.0 a-d	4.0 cd	.	4.7 abc	4.7	4.4
Progeny Ag P 5213RY	.	4.0 b-e	4.7 bcd	4.0 cd	.	5.0 abc	4.3	4.5
Progeny Ag P 5226RYS	.	3.7 c-f	5.0 a-d	4.7 abc	.	4.3 bc	4.0	4.4
Progeny Ag P 5333RY	.	3.3 def	4.7 bcd	4.3 bcd	.	5.3 ab	4.3	4.3
Progeny Ag P 5555RY	.	3.0 ef	4.7 bcd	3.0 e	.	4.3 bc	4.3	3.9
Progeny Ag P 5610RY	.	3.3 def	4.3 cd	4.7 abc	.	4.7 abc	5.0	4.3
Schillinger 5220.RC	.	3.7 c-f	4.0 d	4.3 bcd	.	4.3 bc	4.3	4.3

Table 40 Continued

Cultivar	Target spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Terral REV® 51A56™	.	5.7 a	5.0 a-d	4.3 bcd	.	5.0 abc	3.3	4.9
Terral REV® 52A94™	.	4.7 abc	6.0 a	4.3 bcd	.	5.3 ab	4.3	4.7
Terral REV® 54R84™	.	3.3 def	5.0 a-d	4.3 bcd	.	5.0 abc	4.7	4.4
Terral REV® 55R53™	.	3.3 def	4.3 cd	4.3 bcd	.	4.7 abc	4.3	4.3
Terral REV® 56R63™	.	3.7 c-f	4.7 bcd	4.7 abc	.	4.0 c	4.7	4.3
Univ. of Arkansas R10-197RY	.	3.3 def	4.7 bcd	4.7 abc	.	4.7 abc	4.7	4.4
Univ. of Arkansas R11-89RY	.	3.3 def	4.3 cd	4.3 bcd	.	4.3 bc	4.3	4.2
Univ. of Arkansas UA 5414RR (R04-1268RR)	.	3.7 c-f	5.0 a-d	4.0 cd	.	5.0 abc	5.0	4.4
Univ. of Missouri S11-20195	.	4.7 abc	5.3 abc	4.3 bcd	.	4.3 bc	4.3	4.7
USG 75J45R	.	3.0 ef	5.7 ab	4.0 cd	.	5.0 abc	4.7	4.4
LSD		1.1	1.1	0.9		1	0.9	
CV		18.7	15.2	12.5		13.5	12.8	
<i>p</i> -value		0.0002	0.047	0.0209		0.0129	0.2728	

Table 41. Reaction of Maturity Group V Late soybean cultivars to Cercospora leaf blight at indicated locations--2015.

Cultivar	Cercospora leaf blight severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Asgrow AG5831	6.3	6.0	6.0	6.0	6	6.0	6.7	6.1
Dyna-Gro 39RY57	6.0	6.0	6.0	6.3	6	6.0	6.7	6.1
Dyna-Gro S57RY26	6.0	6.0	6.0	6.0	6	6.0	6	6.0
NK S58-Z4	6.0	6.0	6.0	6.0	6	6.0	6	6.0
NK S59-V9	6.3	6.0	6.0	6.0	6	6.0	6.3	6.1
Progeny Ag P 5752RY	6.0	6.0	6.0	6.3	6	6.0	6.7	6.1
Terral REV® 57R21™	6.0	6.0	6.0	6.3	6	6.3	6.3	6.1
USG 75B75R	6.0	6.0	6.3	6.0	6	6.0	6.3	6.1
LSD	0.5	0	0.4	0.5	0	0.4	0.7	
CV	4.4	-	3.4	4.8	-	3.4	6.3	
<i>p</i> -value	0.4706	-	0.4706	0.4435	-	0.4706	0.2639	

Table 42. Reaction of Maturity Group V Late soybean cultivars to frogeye leaf spot at indicated loctaions--2015.

Cultivar	Frogeye leaf spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Asgrow AG5831	0.0	1.7	1.3 b	1.3	0.0	3.0 a	1.3	1.2
Dyna-Gro 39RY57	0.0	0.7	3.0 a	2.0	0.3	3.0 a	1.3	1.5
Dyna-Gro S57RY26	0.0	1.0	0.0 c	0.7	0.0	1.7 b	1.0	0.6
NK S58-Z4	0.0	0.3	0.7 bc	1.0	0.0	1.0 c	1.0	0.6
NK S59-V9	0.3	0.3	0.3 bc	1.3	0.0	1.0 c	1.0	0.6
Progeny Ag P 5752RY	0.0	0.7	0.0 c	1.0	0.0	1.0 c	1.0	0.5
Terral REV® 57R21™	0.3	0.7	0.3 bc	0.7	0.0	1.3 bc	0.7	0.6
USG 75B75R	0.3	0.7	0.7 bc	1.0	0.0	1.3 bc	1.0	0.7
LSD	0.6	0.8	1.2	0.9	0.4	0.6	0.6	
CV	282.8	60.9	89.3	47.3	489.9	19.1	35.5	
<i>p</i> -value	0.6619	0.0587	0.0024	0.1276	0.4706	<0.0001	0.4706	

Table 43. Rating of Maturity Group V Late soybean cultivars for green stem severity at indicated locations--2015.

Cultivar	Green stem severity rating (0-100%)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Asgrow AG5831	12 cd	90 a	22 d	.	22 c	12 c	33 bc	31.8
Dyna-Gro 39RY57	15 cd	90 a	10 ef	.	60 b	30 b	50 b	42.5
Dyna-Gro S57RY26	43 b	90 a	30 c	.	85 a	4 c	10 d	43.7
NK S58-Z4	70 a	-	45 b	.	90 a	-	90 a	73.8
NK S59-V9	3 d	90 a	60 a	.	78 a	80 a	10 d	53.5
Progeny Ag P 5752RY	28 bc	93 a	25 cd	.	60 b	4 c	17 cd	37.8
Terral REV® 57R21™	13 cd	40 c	5 f	.	75 ab	6 c	28 bcd	27.8
USG 75B75R	18 cd	85 b	15 e	.	73 ab	2 c	43 b	39.3
	LSD 16.7	4.9	5.8		16.9	10.5	22	
	CV 37.8	1.9	12.5		14.2	29.7	35.7	
	<i>p</i> -value <0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001	

Table 44. Reaction of Maturity Group V Late soybean cultivars to septoria brown spot at indicated locations--2015.

Cultivar	Septoria brown spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Asgrow AG5831	5.0	3.3	5.3	4.3	5.0	5.3	4.3	4.6
Dyna-Gro 39RY57	4.7	3.3	5.0	4.3	5.3	5.0	5.3	4.6
Dyna-Gro S57RY26	3.3	3.3	3.7	4.0	4.7	4.7	4.7	4.1
NK S58-Z4	3.7	3.0	5.7	4.3	4.3	5.3	4.7	4.6
NK S59-V9	4.0	3.3	5.3	4.7	4.3	5.0	4.7	4.5
Progeny Ag P 5752RY	4.7	3.3	4.3	4.3	5.0	5.0	5.0	4.4
Terral REV® 57R21™	4.7	3.0	6.0	4.3	4.3	5.0	4.7	4.6
USG 75B75R	4.3	3.0	5.0	4.0	4.3	4.7	5.0	4.4
LSD 1.3		0.8	1.4	0.8	1.2	1.3	1.1	
CV 17		13.8	15.9	10.1	14.5	14.6	13.6	
<i>p</i> -value 0.1498		0.8512	0.062	0.5371	0.448	0.911	0.7004	

Table 45. Reaction of Maturity Group V Late soybean cultivars to target spot at indicated locations--2015.

Cultivar	Target spot severity rating (0-9)							AVG
	Brooksville	Clarksdale (irr)	Falkner	Longwood	Raymond	Stoneville (clay)	Stoneville (loam)	
Asgrow AG5831	.	3.0	5.0 abc	4.3	.	4.7	4.3	4.3
Dyna-Gro 39RY57	.	3.0	4.7 a-d	4.3	.	4.7	5.0	4.3
Dyna-Gro S57RY26	.	3.0	3.7 d	4.3	.	4.3	5.3	4.1
NK S58-Z4	.	3.7	5.7 a	4.3	.	4.0	5.0	4.5
NK S59-V9	.	2.7	4.7 a-d	4.7	.	5.3	5.0	4.5
Progeny Ag P 5752RY	.	3.0	4.0 cd	4.0	.	4.7	4.7	4.1
Terral REV® 57R21™	.	3.0	5.3 ab	4.3	.	5.0	5.0	4.5
USG 75B75R	.	3.7	4.3 bcd	3.7	.	4.7	4.7	4.2
LSD		0.9	1.1	1		1.4	1.4	
CV		17.1	13.9	12.9		16.9	15.9	
<i>p</i> -value		0.314	0.032	0.5676		0.6222	0.8438	

Table 46. Reaction of Maturity Group V LibertyLink soybean cultivars to Cercospora leaf blight at indicated locations--2015.

Cultivar	Cercospora leaf blight severity (0-9)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 51X5L	6	6.3 bc	6.0 b	6.1
Armor 53-L55	6	6.0 c	6.0 b	6.0
Credenz CZ 5147 LL	6	6.0 c	6.0 b	6.0
Credenz CZ 5150 LL	6	6.3 bc	6.3 b	6.2
Credenz CZ 5242 LL	6	6.3 bc	6.0 b	6.1
Credenz CZ 5445 LL	6	6.0 c	6.0 b	6.0
Credenz CZ 5515 LL	6	6.0 c	6.0 b	6.0
Credenz CZ 5727 LL	6	6.0 c	6.0 b	6.0
Delta Grow DG 5067LL	6	6.3 bc	6.0 b	6.1
Delta Grow DG 5367LL	6	6.0 c	6.0 b	6.0
Delta Grow DG 5461 LL	6	6.3 bc	6.0 b	6.1
Delta Grow DG 5467LL	6	7.7 a	8.0 a	7.2
Dyna-Gro S52LL66	6	6.0 c	6.3 b	6.1
Dyna-Gro S55LS75	6	6.0 c	6.0 b	6.0
Go Soy 5115LL	6	6.7 b	6.0 b	6.2
Go Soy 5215LL	6	6.0 c	6.0 b	6.0
Go Soy 5515LL	6	6.0 c	6.0 b	6.0
Halo 5.26	6	6.0 c	6.3 b	6.1
Progeny Ag P 5160LL	6	6.0 c	6.0 b	6.0
Progeny Ag P 5414LLS	.	6.0 c	6.0 b	6.0
Progeny Ag P 5460LL	6	6.3 bc	6.0 b	6.1
Progeny Ag P 5960LL	.	6.0 c	6.0 b	6.0
Progeny Ag P 6355LL	.	6.0 c	6.3 b	6.2
Terral REV® 55L95™	6	6.0 c	6.0 b	6.0
USG 75G24L	6	6.0 c	6.3 b	6.1
	LSD 0	0.5	0.4	
	CV .	5.3	4.1	
	<i>p</i> -value .	<0.0001	<0.0001	

Table 47. Reaction of Maturity Group V LibertyLink soybean cultivars to frogeye leaf spot at indicated locations.

Cultivar	Frogeye leaf spot severity (0-9)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 51X5L	0.3 c	0 b	0.7 e	0.3
Armor 53-L55	0 c	0 b	1.0 de	0.3
Credenz CZ 5147 LL	0 c	0.3 b	1.3 cde	0.5
Credenz CZ 5150 LL	0 c	0 b	1.0 de	0.3
Credenz CZ 5242 LL	0.3 c	0 b	1.0 de	0.4
Credenz CZ 5445 LL	0 c	0 b	1.0 de	0.3
Credenz CZ 5515 LL	0 c	0.3 b	2.0 bc	0.8
Credenz CZ 5727 LL	0 c	0 b	1.0 de	0.3
Delta Grow DG 5067LL	0 c	0 b	1.3 cde	0.4
Delta Grow DG 5367LL	1.7 a	1.3 a	4.0 a	2.3
Delta Grow DG 5461 LL	1 b	0.3 b	2.3 b	1.2
Delta Grow DG 5467LL	0.3 c	0 b	1.3 cde	0.5
Dyna-Gro S52LL66	0 c	0 b	1.3 cde	0.4
Dyna-Gro S55LS75	0 c	0 b	1.0 de	0.3
Go Soy 5115LL	0 c	0.3 b	1.0 de	0.4
Go Soy 5215LL	0 c	0 b	1.0 de	0.3
Go Soy 5515LL	0 c	0 b	1.0 de	0.3
Halo 5.26	0 c	0 b	1.0 de	0.3
Progeny Ag P 5160LL	0 c	0 b	1.0 de	0.3
Progeny Ag P 5414LLS	.	0 b	1.0 de	0.5
Progeny Ag P 5460LL	0 c	0 b	1.0 de	0.3
Progeny Ag P 5960LL	.	0 b	1.0 de	0.5
Progeny Ag P 6355LL	.	0 b	1.7 bcd	0.9
Terral REV® 55L95™	0 c	0 b	1.0 de	0.3
USG 75G24L	0 c	0 b	1.0 de	0.3
	LSD 0.8	0.4	0.7	
	CV 197.4	233.9	32.7	
	<i>p</i> -value <0.0001	<0.0001	<0.0001	

Table 48. Rating of Maturity Group V LibertyLink soybean cultivars for green stem severity at indicated locations--2015.

Cultivar	Green stem severity rating (0-100%)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 51X5L	1 f	1 i	2 f	1.3
Armor 53-L55	53 a	18 fg	8 de	26.3
Credenz CZ 5147 LL	19 bc	2 i	2 f	7.7
Credenz CZ 5150 LL	2 f	1 i	4 def	2.3
Credenz CZ 5242 LL	1 f	2 i	0 f	1.0
Credenz CZ 5445 LL	17 b-e	6 hi	5 def	9.3
Credenz CZ 5515 LL	1 f	40 cd	95 a	45.3
Credenz CZ 5727 LL	18 bcd	30 de	58 b	35.3
Delta Grow DG 5067LL	1 f	0 i	1 f	0.7
Delta Grow DG 5367LL	1 f	3 hi	1 f	1.7
Delta Grow DG 5461 LL	13 c-f	13 fgh	50 c	25.3
Delta Grow DG 5467LL	6 def	1 i	2 f	3.0
Dyna-Gro S52LL66	0 f	2 i	9 d	3.7
Dyna-Gro S55LS75	16 b-e	22 ef	5 def	14.3
Go Soy 5115LL	4 ef	9 ghi	2 f	5.0
Go Soy 5215LL	1 f	2 i	2 f	1.7
Go Soy 5515LL	27 b	50 c	3 f	26.7
Halo 5.26	8 c-f	3 hi	2 f	4.3
Progeny Ag P 5160LL	1 f	90 a	4 def	31.7
Progeny Ag P 5414LLS	.	30 de	60 b	45.0
Progeny Ag P 5460LL	1 f	3 hi	-	2.0
Progeny Ag P 5960LL	.	93 a	3 f	48.0
Progeny Ag P 6355LL	.	0 i	62 b	31.0
Terral REV® 55L95™	6 def	75 b	53 c	44.7
USG 75G24L	1 f	2 i	2 f	1.7
	LSD 13.2	10.6	16.6	
	CV 88.5	30.9	43.1	
	<i>p</i> -value <0.0001	<0.0001	<0.0001	

Table 49. Reaction of Maturity Group V LibertyLink soybean cultivars to septoria brown spot at indicated locations--2015.

Cultivar	Septoria brown spot severity (0-9)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 51X5L	5.0 abc	5.7 a	4.7 abc	5.1
Armor 53-L55	3.3 de	4.3 bc	4.3 bc	4.0
Credenz CZ 5147 LL	5.0 abc	5.0 abc	4.0 cd	4.7
Credenz CZ 5150 LL	4.0 cde	4.7 abc	5.3 ab	4.7
Credenz CZ 5242 LL	4.7 a-d	5.3 ab	5.3 ab	5.1
Credenz CZ 5445 LL	3.0 e	4.0 c	4.7 abc	3.9
Credenz CZ 5515 LL	4.0 cde	4.3 bc	4.0 cd	4.1
Credenz CZ 5727 LL	4.3 b-e	4.3 bc	5.3 ab	4.6
Delta Grow DG 5067LL	4.7 a-d	5.7 a	5.3 ab	5.2
Delta Grow DG 5367LL	4.0 cde	5.0 abc	4.7 abc	4.6
Delta Grow DG 5461 LL	4.7 a-d	5.3 ab	5.3 ab	5.1
Delta Grow DG 5467LL	5.7 ab	5.3 ab	5.3 ab	5.4
Dyna-Gro S52LL66	4.7 a-d	5.0 abc	5.0 abc	4.9
Dyna-Gro S55LS75	4.0 cde	4.3 bc	4.3 bc	4.2
Go Soy 5115LL	3.3 de	4.3 bc	5.0 abc	4.2
Go Soy 5215LL	4.3 b-e	5.0 abc	5.0 abc	4.8
Go Soy 5515LL	3.3 de	4.3 bc	4.3 bc	4.0
Halo 5.26	4.7 a-d	5.7 a	5.3 ab	5.2
Progeny Ag P 5160LL	4.3 b-e	4.7 abc	4.3 bc	4.4
Progeny Ag P 5414LLS	.	4.7 abc	5.3 ab	5.0
Progeny Ag P 5460LL	6.0 a	5.7 a	3.0 d	4.9
Progeny Ag P 5960LL	.	4.7 abc	4.7 abc	4.7
Progeny Ag P 6355LL	.	4.3 bc	4.7 abc	4.5
Terral REV® 55L95™	5.3 abc	4.3 bc	5.3 ab	5.0
USG 75G24L	4.7 a-d	5.0 abc	5.7 a	5.1
	LSD 1.6	1.1	1.1	
	CV 21.8	13.9	13.3	
	<i>p</i> -value 0.0406	0.0432	0.0016	

Table 50. Reaction of Maturity Group V LibertyLink soybean cultivars to target spot at indicated locations--2015.

Cultivar	Target spot severity (0-9)			Avg.
	Brooksville	Falkner	Stoneville (clay)	
Armor 51X5L	.	5.0	4.7 abc	4.9
Armor 53-L55	.	4.3	4.3 bcd	4.3
Credenz CZ 5147 LL	.	4.3	3.7 de	4.0
Credenz CZ 5150 LL	.	4.3	5.0 ab	4.7
Credenz CZ 5242 LL	.	5.0	4.7 abc	4.9
Credenz CZ 5445 LL	.	4.3	4.0 cd	4.2
Credenz CZ 5515 LL	.	4.0	3.7 de	3.9
Credenz CZ 5727 LL	.	4.3	4.0 cd	4.2
Delta Grow DG 5067LL	.	5.0	5.3 a	5.2
Delta Grow DG 5367LL	.	5.0	4.0 cd	4.5
Delta Grow DG 5461 LL	.	4.7	4.7 abc	4.7
Delta Grow DG 5467LL	.	5.3	5.3 a	5.3
Dyna-Gro S52LL66	.	4.7	4.7 abc	4.7
Dyna-Gro S55LS75	.	4.3	4.3 bcd	4.3
Go Soy 5115LL	.	4.0	5.0 ab	4.5
Go Soy 5215LL	.	4.7	5.0 ab	4.9
Go Soy 5515LL	.	4.0	4.0 cd	4.0
Halo 5.26	.	5.0	4.7 abc	4.9
Progeny Ag P 5160LL	.	4.3	4.0 cd	4.2
Progeny Ag P 5414LLS	.	4.3	5.0 ab	4.7
Progeny Ag P 5460LL	.	5.0	3.0 e	4.0
Progeny Ag P 5960LL	.	4.0	4.7 abc	4.4
Progeny Ag P 6355LL	.	4.3	4.7 abc	4.5
Terral REV® 55L95™	.	4.3	5.0 ab	4.7
USG 75G24L	.	4.3	5.0 ab	4.7
LSD	.	1	1	
CV	.	13.9	13	
<i>p</i> -value	.	0.3539	0.0008	