

Response of Maturity Group IV Conventional, LibertyLink, and RoundUp Ready soybean cultivars to stem canker, 2020.

Company/Cultivar	Stem canker rating^{1,2}	Cultivar designation³
J77-339 (check)	3.4 ab	MR
Univ. of Missouri S11-20242C (check)	3.7 bcd	MR
Univ. of Missouri S15-10434C (check)	2.3 bcd	R
Credenz CZ 4820 LL	0.0 f	R
GDM Seeds V 4520 S	0.0 f	R
GDM Seeds V 4720 S	0.0 f	R
GDM Seeds V 4921 S	0.0 f	R
Go Soy 46G19	0.0 f	R
Go Soy 48C17S	0.0 f	R
Go Soy 49G16	6.6 a	MS
Go Soy GT Ireane	0.0 f	R
Go Soy Ireane	0.2 ef	R
Local Seed Co. LSX3911GL	0.0 f	R
Local Seed Co. LSX4711GL	0.2 ef	R
Petrus Seed 4619 GTS	0.0 f	R
Petrus Seed 4916 GT	6.5 a	MS
Progeny Ag 4602LR	0.0 f	R
Univ. of Arkansas R15-2422	2.9 abc	R
Univ. of Arkansas R16-259	0.2 ef	R
Univ. of Missouri S15-10879C	4.0 bc	MR
Univ. of Missouri S15-3772RY	1.7 de	R
Univ. of Missouri S15-3847R	0.0 f	R
Univ. of Missouri S15-5904RY	1.1 cd	R
Univ. of Missouri S16-11644C	3.9 ab	MR
Univ. of Missouri S16-14379C	0.0 f	R
Univ. of Missouri S16-14730C	0.0 f	R
Univ. of Missouri S16-5540R	2.8 abc	R
Univ. of Missouri S16-7875C	1.2 bcd	R
Univ. of Missouri S16-7922C	0.0 f	R
MSE	236.2	-
CV (%)	26.3	-
<i>P</i> -value for F-statistic	<0.0001	-

¹Stem Canker Reaction-Ten plants per plot were inoculated with fungus-infested toothpicks. Ratings were given by individual plant reaction using a modified 0-9 scale based on lesion severity and are presented as the average for the ten plants. Where a lesion did not appear, a rating of 0 (Resistant) was assessed. Ratings were assessed based on the presence of a lesion whereby a reaction that produced a visible lesion that did not expand up the length of the stem was assessed as a 1. Dead plants with lesions that extended up most of the plant's length 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 system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible and 7 = Susceptible.