

Response of Maturity Group IV early soybean cultivars to stem canker, 2017.

Company/Cultivar	Stem canker rating ^{1,2}	Cultivar designation ³
Dyna-Gro 39RY43 (Check)	7.1 a-c	MS
AgriGold G4380RX	0.8 kl	R
AgriGold G4440RX	7.2 ab	MS
AgriGold G4685RX	0.7 l	R
AGS GS45R216	4.7 a-g	MR
Armor 44-D40	3.4 b-j	MR
Armor 46-D08	5.8 a-d	MS
Armor ARX4607	7.5 a	S
Asgrow 4632	3.6 b-j	MR
Asgrow AG43X7	4.0 a-h	MR
Asgrow AG45X8	2.4 e-l	MR
Asgrow AG46X6	0.5 l	R
Asgrow AG46X7	1.8 g-l	R
Asgrow AG46X8	1.4 h-l	R
Credenz CZ 4181 RY	5.1 a-e	MS
Credenz CZ 4590 RY	2.1 f-l	R
Croplan RX4516S	3.6 b-j	MR
Delta Grow DG4670 RR2	4.1 a-h	MR
Delta Grow DG4680 RR2	4.2 a-g	MR
Dyna-Gro 31RY45	4.3 a-g	MR
Dyna-Gro S43RY95	3.4 b-j	MR
Dyna-Gro S44XS57	4.7 a-h	MR
Dyna-Gro S45XS37	2.7 d-l	R
Dyna-Gro S45XS66	2.4 f-l	R
Dyna-Gro SX17846XS	4.2 a-i	MR
Great Heart Seed GT-4540XS	5.5 a-f	MS
NK S41-A1X	5.1 a-g	MS
NK S43-V3X	1.8 g-l	R
NK S45-K5X	0.9 j-l	R
Pioneer P40T26X	1.1 i-l	R
Pioneer P41T33R	3.8 a-i	MR
Pioneer P45T74X	1.3 h-l	R
Progeny P4255RX	4.7 a-g	MR
Progeny P4444RXS	2.2 f-l	R
Progeny P4516RXS	3.8 b-j	MR
Progeny P4620RXS	2.5 e-l	R
Univ. of Missouri S14-9051R	0.6 l	R
MSE (0.05)	1,216.52	-
CV (%)	46.82	-
<i>P</i> -value for F-statistic	<0.0001	-

¹Stem Canker Reaction-Eight plants per plot were inoculated with 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 eight 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.