

**Response of Maturity Group IV early soybean cultivars to stem canker, 2018.**

<b>Company/Cultivar</b>	<b>Stem canker rating<sup>1,2</sup></b>	<b>Cultivar designation<sup>3</sup></b>
Dyna-Gro 39RY43 (Check)	.	.
Armor ARX4607 (2017 check)	6.8 ab	S
Dyna-Gro SX17846XS (2017 check)	4.1 cde	MR
AgriGold G4440RX	6.2 abc	MS
AgriGold G4579RX	1.0 g-k	R
AgriGold G4605RX	0.0 k	R
AGS GS 46X17	0.9 g-k	R
Armor 42-D27 (ARX4207)	1.8 e-k	R
Armor X45D50	0.0 k	R
Armor X46D63	0.8 g-k	R
Asgrow AG42X9	2.1 e-k	R
Asgrow AG43X7	3.1 d-g	MR
Asgrow AG43X8	0.9 g-k	R
Asgrow AG45X8	1.2 g-k	R
Asgrow AG46X6	0.2 k	R
Croplan RX 4217 S	0.6 jk	R
Croplan RX 4500 S	1.6 f-k	R
Croplan RX4687S	6.4 abc	MS
Delta Grow DG 4670 RR2	2.0 e-k	R
Delta Grow DG 46X25RR2 Xtend	0.0 k	R
Dyna-Gro S41XS98	0.8 g-k	R
Dyna-Gro S45XS37	0.0 k	R
Dyna-Gro S45XS66	2.6 d-j	R
Dyna-Gro SX18845XT	0.3 jk	R
Great Heart GT-4628X	3.8 def	MR
Great Heart GT-4685XS	1.6 f-k	R
Local Seed Co. LS4487XS	3.0 d-i	MR
Local Seed Co. LS4565XS	1.2 g-k	R
Local Seed Co. LS4583X	0.4 jk	R
Local Seed Co. LS4677X	0.4 jk	R
Local Seed Co. LS4689X	1.4 g-k	R
Mission Seed Solutions A4447NS	7.3 a	S
Mission Seed Solutions A4637NS	7.0 a	S
Mission Seed Solutions MEX4608	1.0 g-k	R
Mission Seed Solutions MEX4618	0.8 g-k	R
MorSoy MS 4426 RXT	4.5 bcd	MR
MorSoy MS 4616 RXT	1.0 g-k	R
NK Seeds S43-V3X	1.1 g-k	R
NK Seeds S45-J3X	3.1 d-g	MR
NK Seeds S45-K5X	0.3 jk	R
Pioneer P42A96X	0.8 g-k	R
Pioneer P46A16R	1.1 g-k	R
Pioneer P46A57BX	1.1 g-k	R
Progeny P4255RX	6.4 abc	MS
Progeny P4318RX	1.2 g-k	R
Progeny P4444RXS	0.6 jk	R

Progeny P4570RXS	0.7 jk	R
Progeny P4620RXS	0.6 jk	R
Terral REV 4679X	0.0 k	R
Univ. of Missouri R14-15146R	0.1 g-k	R
USG 7447XTS	8.3 a	S
LSD (0.05)	2.3	
CV (%)	80.9	
<i>P</i> -value for F-statistic	<0.0001	

<sup>1</sup>Stem 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.

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

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