

**Response of Maturity Group V 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>
Great Heart Seed GT-5022XS (Check)	2.8 d	MR
Armor ARX5107 (2017 check)	4.9 bc	MS
Asgrow AG51X8 (2017 check)	6.4 a	MS
AgriGold G5000RX	0.2 e	R
AgriGold G5288RX	0.0 e	R
AGS GS 51X18S	0.0 e	R
Armor 53-D04	0.0 e	R
Armor X50D13	0.0 e	R
Armor X51D77	0.0 e	R
Armor X52D71	0.1 e	R
Armor X55D57	0.0 e	R
Asgrow AG52X9	0.4 e	R
Asgrow AG53X9	0.2 e	R
Asgrow AG54X9	0.2 e	R
Asgrow AG55X7	0.3 e	R
Croplan(Mid-south) RX 5016 S	0.0 e	R
Delta Grow DG 5170 RR2/STS	0.5 e	R
Delta Grow DG 52X15 Xtend	0.0 e	R
Dyna-Gro S52XT08	0.5 e	R
Dyna-Gro S56XT99	0.0 e	R
Dyna-Gro SX18652XS	0.2 e	R
Dyna-Gro SX18854XT	0.1 e	R
Go Soy 50G17	0.9 e	R
Go Soy 54G16	5.5 ab	MS
Great Heart GT-5324X	0.0 e	R
Local Seed Co. LS5087X	0.3 e	R
NK Seeds S50-G9XS	1.0 e	R
NK SeedsS52Y7X	0.6 e	R
NK SeedsS56B7X	0.0 e	R
Pioneer 54A54X	0.3 e	R
Pioneer 55A49X	0.3 e	R
Pioneer P54A75X	0.1 e	R
Progeny P5016RXS	0.7 e	R
Progeny P5018RX	0.0 e	R
Progeny P5226RYS	0.0 e	R
Progeny P5252RX	0.4 e	R
Progeny P5279RXS	0.0 e	R
Progeny P5554RX	0.0 e	R
Progeny P5688RX	4.0 c	R
Terral REV 51A56	0.5 e	R
Terral REV 52A98	0.4 e	R
Terral REV 55A67	0.0 e	R
Terral REV 56A58	0.1 e	R
Univ. of Arkansas R14-14797 RR	0.2 e	R
Univ. of Missouri S14-9017R	0.0 e	R
LSD (0.05)	1.0	

---

CV (%)	112.3
<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.