

**Response of Maturity Group IV Xtend soybean cultivars to stem canker, 2016.**

<b>Company/Cultivar</b>	<b>Stem canker rating<sup>1,2</sup></b>	<b>Cultivar designation<sup>3</sup></b>
Dyna-Gro 39RY43 (Check)	4.75 a	MS
Armor 46-D08	0.72 d-g	R
Armor47-D17	1.19 b-f	R
Armor48-D24	0.33 fg	R
Armor48-D80	0.72 d-g	R
Armor49-D66	0.44 efg	R
Armor49-D90	0.06 fg	R
ArmorARX4706	0.09 fg	R
ArmorARX4906	0.25 fg	R
Asgrow AG42X6	1.58 b-e	R
Asgrow AG44X6	0.19 fg	R
Asgrow AG45X6	3.59 a	MR
Asgrow AG46X6	0.03 fg	R
Asgrow AG46X7	0.31 fg	R
AsgrowAG47X6	0.03 fg	R
AsgrowAG48X7	0.47 efg	R
AsgrowAG49X6	1.72 bcd	R
Delta GrowDGX 4845RR2	0.00 g	R
Dyna-Gro S45XS66	0.34 fg	R
Dyna-GroS48XT56	0.06 fg	R
Dyna-GroS49XT07	2.28 b	R
Great Heart Seed GT-4430XS	1.53 b-e	R
Great Heart Seed GT-4540XS	0.06 fg	R
Great Heart SeedGT-4860X	0.00 g	R
Progeny Ag Products P 4516RXXS	0.69 d-g	R
Progeny Ag Products P 4620RXXS	0.22 fg	R
Progeny Ag ProductsP 4799RXXS	0.00 g	R
Progeny Ag ProductsP 4816RX	0.00 g	R
Progeny Ag ProductsP 4944RX	0.69 d-g	R
USG7487XTS	0.84 c-g	R
USG7496XTS	0.06 fg	R
USG7497XT	1.91 bc	R
LSD (0.05)	1.2	-
CV (%)	104.6	-
<i>P</i> -value for F-statistic	<0.0001	-

<sup>1</sup>Stem Canker Reaction-8 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.