

**Response of maturity group IV early Xtend soybean cultivars to stem canker, 2020.**

<b>Company/Cultivar</b>	<b>Stem canker rating<sup>1,2</sup></b>	<b>Cultivar designation<sup>3</sup></b>
AgriGold G4440RX (check)	5.7 a	MR/MS
Mission Seed Solutions A4447N (check)	3.2 a	MR
Progeny P4255 (check)	5.7 a	MR/MS
AgriGold G4255RX	0.0 c	R
AgriGold G4620RX	0.0 c	R
Armor 44-D49	0.0 bc	R
Armor 44-D92	0.4 bc	R
Armor 46-D09	0.0 c	R
Asgrow AG43X0	0.0 c	R
Asgrow AG45X8	0.0 c	R
Asgrow AG46X0	0.0 c	R
Asgrow AG46X6	0.0 c	R
Credenz CZ 4280X	0.0 c	R
Credenz CZ 4341X	0.0 c	R
Credenz CZ 4570X	0.2 bc	R
Credenz CZ 4600X	0.0 c	R
Delta Grow 46X05/STS	0.0 c	R
Delta Grow 46X65/STS	0.0 c	R
Dyna-Gro S43XS70	0.0 c	R
Dyna-Gro S45XS37	0.0 c	R
Dyna-Gro S45XS66	0.0 c	R
Dyna-Gro S46XS60	0.0 c	R
GDM Seeds DM 44X31	0.0 c	R
GDM Seeds DM 45X61	0.0 c	R
Great Heart Seed GT-4677XS	0.2 b	R
LG Seeds LGS4464RX	0.0 c	R
LG Seeds LGS4632RX	0.0 c	R
Local Seed Co. LS3976X	0.2 bc	R
Local Seed Co. LS4299XS(LSX4301XS)	0.0 c	R
Local Seed Co. LS4407X	0.0 c	R
Local Seed Co. LS4407X (LSX4501X)	0.0 c	R
Local Seed Co. LS4565X	0.0 c	R
Local Seed Co. LS4583X	0.0 c	R
Mission A4448X	0.0 c	R
Mission A4618X	0.0 c	R
MorSoy MS 4616RXT/STS	0.0 c	R
NK S44-C7X	0.0 c	R
Pioneer P42A96X	0.2 bc	R
Pioneer P44A72BX	0.0 c	R
Pioneer P46A86X	0.0 c	R
Progeny Ag 4265RXS	0.0 c	R
Progeny Ag 4444RXS	0.0 c	R
Progeny Ag 4505RXS	0.0 c	R
Progeny Ag 4620RXS	0.0 c	R
Terral REV4679X	0.0 c	R
USG 7447XTS	5.4 a	MR
USG 7461XTS	0.0 c	R
	MSE	342.4
	CV (%)	19.8
	P-value for F-statistic	<0.0001

<sup>1</sup>Stem 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.

<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.