

Response of Maturity Group V early Xtend soybean cultivars to stem canker, 2019.

Company/Cultivar¹	Stem canker rating^{2,3}	Cultivar designation⁴
Go Soy 54G16 (check)	0.5	R
Progeny P5688RX (check)	0.4	R
AgriGold G5000RX	0.0	R
*AGS GS52X19S	0.3	R
Armor 51-D77	1.3	R
Armor 52-D71	0.3	R
Asgrow AG52X9	0.5	R
Asgrow AG53X0	0.3	R
Asgrow AG53X9	0.0	R
Asgrow AG55X7	0.0	R
Credeuz CZ 5299X	1.5	R
Delta Grow 52X05	1.6	R
Delta Grow 54X25	1.9	R
Dyna-Gro S52XS39 (SX18652XS)	0.3	R
Dyna-Gro S52XT08	0.2	R
Dyna-Gro S54XT17	0.4	R
Dyna-Gro S56XT99	0.7	R
Great Heart Seed GT-5528X	0.0	R
Local Seed LS5087X	0.0	R
Local Seed LS5386X	0.3	R
Local Seed LS5588X	0.7	R
NK S51-R3XS	0.3	R
NK S53-F7X	0.2	R
Pioneer P54A54X	0.7	R
Pioneer P55A49X	0.7	R
*Pioneer P55A59X	1.0	R
Progeny Ag P5016RXX	0.5	R
Progeny Ag P5170RX	0.9	R
Progeny Ag P5252RX	0.0	R
Progeny Ag P5554RX	0.2	R
Progeny Ag P5688RX	2.7	MR
Terral REV 5659X	0.0	R
LSD (0.05)	1.5	
CV (%)	187.2	
<i>P</i> -value for F-statistic	0.1273	

¹An asterisk (*) denotes a variety that was supplemented for the purposes of gaining additional information on varieties that may be planted in the MS soybean production system but were not a part of the 2019 MSU OVT program.

²Stem canker reaction-10 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.

³Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

⁴By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible and 7 = Susceptible.