

**Response of maturity group IV late Xtend soybean cultivars to stem canker, 2023.**

<b>Company/Cultivar<sup>1</sup></b>	<b>Stem canker rating<sup>2</sup></b>	<b>Cultivar designation<sup>3</sup></b>
J77-339 (check)	6.5	MS
Petrus 4916GT (check)	7.5	S
Asgrow AG47XF2	0.0	R
Asgrow AG48X9	0.5	R
Asgrow AG48XF2	0.3	R
Asgrow AG48XF3	0.0	R
Asgrow AG49XF4	0.0	R
Beck's 4887XF	0.0	R
Delta Grow 47XF38	0.7	R
Delta Grow 48X45	0.3	R
Delta Grow 48XF33	0.4	R
Delta Grow 48XF42	0.0	R
Delta Grow 49XF85/STS	0.0	R
Don Mario DM48F53 (210985)	0.0	R
Dyna-Gro S47XF23S	0.2	R
Dyna-Gro S49XF43S	0.0	R
Dyna-Gro S49XF82	0.0	R
Gateway Seed 473XFS	0.1	R
Great Heart Seed GT-4756XF	0.0	R
Great Heart Seed GT-4762XF	0.1	R
Great Heart Seed GT-4867XF	0.2	R
Innvictis A4850XF	0.0	R
Innvictis A4862XF	0.0	R
NK NK47-Z1XF	0.0	R
NK NK48-A8XFS	0.0	R
NK NK49-C2XFS	0.5	R
NK S49-F5X	0.3	R
Pioneer P47A64X	0.0	R
Pioneer P48A04LX	1.3	R
Progeny 4755XFS	0.1	R
Progeny 4778XFS	0.0	R
Progeny 4798XF	1.3	R
Progeny 4806XFS	0.0	R
Progeny 4947XFS	0.0	R
Revere 4727XF	0.0	R
Revere 4731XF	0.0	R
Revere 4795XS	0.4	R
Revere 4826XFS	0.0	R
Revere 4934XF	0.0	R
MSE	24.75	-
CV (%)	32.35	-
<i>P</i> -value for F-statistic	0.0002	-

<sup>1</sup>An asterisk denotes an entry that was added to supplement the set of entries evaluated through toothpick inoculation. Information from the given entry will only be included in these data tables and may not represent the greater set of data generated by the Mississippi State University Official Variety Testing Program as this entry was not provided for comparison in the greater 2023 soybean OVT program conducted throughout Mississippi.

<sup>2</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>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.