

**Response of maturity group IV early 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)	5.3	MS
Petrus 4916GT (check)	6.9	MS
Armor Seed 44-D49	0.0	R
Armor Seed 45-F02	0.0	R
Armor Seed 46-F96	0.0	R
Asgrow AG39XF3	0.0	R
Asgrow AG42XF4	0.2	R
Asgrow AG43XF2	0.0	R
Asgrow AG45XF3	0.0	R
Asgrow AG46XF3	0.0	R
Beck's 4337XF	0.0	R
Delta Grow 44XF75/STS	0.0	S
Delta Grow 46X65/STS	0.0	R
Delta Grow 46XF54	0.0	R
Don Mario DM45F23 (DM45F61)	0.0	R
Dyna-Gro S42XF93S	0.0	R
Dyna-Gro S43XS70	0.3	R
Dyna-Gro S46XF31S	0.0	R
Dyna-Gro S46XS60	0.0	R
Gateway Seed 457XFS	0.0	R
Gateway Seed 461XFS	0.2	R
Gateway Seed 469XF	0.0	R
Great Heart Seed GT-4255XS	0.0	R
Great Heart Seed GT-4366XFS	0.0	R
Great Heart Seed GT-4538XFS	0.0	R
Great Heart Seed GT-4677XS	0.0	R
Great Heart Seed GT-4681XFS	0.1	R
Innictis A4411XF	0.1	R
Innictis A4503XF	0.2	R
NK NK42-T5XF	0.0	R
NK NK43-Y9XFS	0.0	R
NK NK44-J4XFS	0.6	R
NK NK46-B4XFS	0.2	R
Pioneer P44A21X	0.0	R
Pioneer P45A70LX	0.0	R
Pioneer P46A90LX	0.1	R
Progeny 4200RXS	1.4	R
Progeny 4604XFS	0.1	R
Progeny 4623XFS	0.0	R
Progeny 4665XFS	0.1	R
Progeny 4691XFS	0.0	R
Revere 4415XF	1.3	R
Revere 4526XF	0.2	R
Revere 4606XF	0.1	R
MSE	26.13	-
CV (%)	29.70	-
P-value for F-statistic	<0.0001	-

<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.