

**Response of maturity group IV late Xtend soybean cultivars to stem canker, 2022.**

<b>Company/Cultivar<sup>1</sup></b>	<b>Stem Canker rating<sup>2,3</sup></b>	<b>Cultivar designation<sup>4</sup></b>
J77-339 (check)	4.9 a	MR/MS
Petrus 4916 GT (check)	6.9 a	MS/S
Armor 48-D25	0.2 bc	R
Armor 48-F22	0.2 bc	R
Armor 49-F37	0.0 c	R
Asgrow AG47XF3	0.0 c	R
Asgrow AG48XF3	0.0 c	R
Asgrow AG48X9	0.0 c	R
Asgrow AG49XF3	0.2 bc	R
Beck's Hybrids 4885XF	0.0 c	R
Delta Grow 48X45	0.0 c	R
Delta Grow 48XF33/STS	0.0 c	R
Delta Grow 49XF29/STS	0.0 c	R
Dyna-Gro S47XF23S	0.0 c	R
Dyna-Gro S47XF52	0.0 c	R
Dyna-Gro S48XF61S	0.0 c	R
Dyna-Gro S48XT90	0.2 bc	R
Dyna-Gro S49XF43S	0.0 c	R
Dyna-Gro S49XF82S	6.0 a	MS
Dyna-Gro S49XT70	0.3 b	R
Gateway Seed 471XF	0.0 c	R
Great Heart Seed GT-4756XF	0.0 c	R
Great Heart Seed GT-4762XF	0.0 c	R
Great Heart Seed GT-4828X	0.1 bc	R
Great Heart Seed GT-4979X	0.0 c	R
Innictis A4742XF	0.0 c	R
Innictis A4850XF	0.0 c	R
Innictis A4950X	0.0 c	R
Local Seed LS4727XF	0.0 c	R
Local Seed LS4795XS	0.0 c	R
*Local Seed LS4805 XFS	0.0 c	R
Local Seed LS4806XS	0.0 c	R
Local Seed LS4826XFS	0.0 c	R
Local Seed LS4925XF	0.0 c	R
MorSoy MS 4846	0.1 bc	R
MorSoy MS 4852	5.3 a	MS
NK NK47-Z1XF	0.0 c	R
NK 48-H3XFS	0.0 c	R
*NK S49-F5X	0.0 c	R
Pioneer P47A64X	0.0 c	R
*Pioneer P48A32X	0.0 bc	R
Progeny P 4732XF	0.0 c	R
Progeny P 4798XF	0.0 c	R
Progeny P 4806XFS	0.0 bc	R
Progeny P 4821RX	0.0 c	R
Progeny P 4844XFS	0.0 c	R
Progeny P 4951XFS	0.0 c	R
	MSE	364.6
	CV (%)	20.6
	<i>P</i> -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 2022 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>Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ( $P=0.05$ ).

<sup>4</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.