

**Response of maturity group V early 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)	5.1 a	MS	
Petrus 4916GT (check)	5.7 a	MS	
Armor 51-F88	0.2 bc	R	
Asgrow AG53XF2	0.0 c	R	
Asgrow AG56XF2	0.0 c	R	
Delta Grow 52XF22/STS	0.0 c	R	
Delta Grow 54XF20	0.2 bc	R	
Dyna-Gro S52XT91	0.0 c	R	
*Dyna-Gro S56XT99	0.0 c	R	
Great Heart GT-5214X	0.0 c	R	
Innvictis A5451XF	0.0 c	R	
Local Seed LS5029XF	0.0 c	R	
Local Seed LS5119XF	0.0 c	R	
Local Seed LS5386X	0.0 c	R	
Local Seed LS5588X	0.0 c	R	
Local Seed LS5614XF	0.0 c	R	
*NK NKS53-F7X	0.0 c	R	
NK NK55-T2XF	0.0 c	R	
*Pioneer P53A67X	0.7 b	R	
Progeny P 5016RXS	0.4 bc	R	
Progeny P 5056XFS	0.0 c	R	
Progeny P 5150XFS	0.0 c	R	
Progeny P 5252RX	0.0 c	R	
Progeny P 5554RX	0.0 c	R	
	MSE	83.3	-
	CV (%)	18.8	-
	<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.