

Response of maturity group V Enlist soybean cultivars to stem canker, 2022.

Company/Cultivar¹	Stem Canker rating^{2,3}	Cultivar designation⁴
J77-339 (check)	6.0 a	MS
Petrus 4916GT (check)	6.3 a	MS
Delta Grow 52E80	0.0 b	R
Delta Grow 53E30	0.0 b	R
*NK NK52-D6E3	0.0 b	R
*Pioneer P52A14SE	0.0 b	R
*Pioneer 53T90E	0.0 b	R
Pioneer 56A71E	0.0 b	R
*Progeny Ag P 5521 E3	0.0 b	R
	MSE	1.6
	CV (%)	6.8
	<i>P</i> -value for F-statistic	<0.0001

¹An 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.

²Stem 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.

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.