

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

Company/Cultivar¹	Stem Canker rating^{2,3}	Cultivar designation⁴
J77-339 (check)	5.7 a	MS
Petrus 4916 GT (check)	5.3 a	MS
Delta Grow 45E33	0.0 b	R
Delta Grow 46E10	0.0 b	R
*Delta Grow 47E20	0.0 b	R
Delta Grow 48E59	0.0 b	R
Delta Grow 48E60	0.1 b	R
*Dyna-Gro S46ES91	0.0 b	R
*Dyna-Gro S49EN12	0.0 b	R
Local Seed LS4737E3	0.2 b	R
*NK39-T5E3S	0.0 b	R
*NK40-P5E3	0.0 b	R
*NK44-Q5E3S	0.0 b	R
*NK 45-V9ES	0.0 b	R
*NK49-T6E3S	0.0 b	R
*Pioneer 42A84E	0.0 b	R
*Pioneer 44A91E	0.0 b	R
*Pioneer 45A79E	0.0 b	R
*Pioneer 46A09E	0.0 b	R
*Pioneer 46A67E	2.3 a	R
*Pioneer 48A14E	0.4 b	R
Progeny P 4775E3S	0.0 b	R
*Stine 46EB22	0.0 b	R
*Stine 46EE20	0.0 b	R
*Stine 47EB23	0.0 b	R
*Stine 47EB32	0.0 b	R
*Stine 48EE20	0.0 b	R
MSE	89.1	-
CV (%)	17.5	-
<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.