

Response of maturity group V late Xtend soybean cultivars to stem canker, 2023.

| Company/Cultivar¹ | Stem canker rating² | Cultivar designation³ |
|-------------------------------------|---------------------------------------|---|
| J77-339 (check) | 5.2 | MS |
| Petrus 4916GT (check) | 7.3 | MS |
| Innictis A5813XF | 0.0 | R |
| Progeny 5751XF | 0.0 | R |
| MSE | 1.69 | - |
| CV (%) | 19.99 | - |
| <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 2023 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.

³By using the Mean Disease Rating, a standardized designation system is as follows: 1 = Resistant, 3 = Moderately Resistant, 5 = Moderately Susceptible and 7 = Susceptible.