

Response of maturity group IV Conventional and RoundUp Ready soybean cultivars to stem canker, 2021.

| Company/Cultivar | Stem canker rating^{1,2} | Cultivar designation³ | |
|--------------------------------------|---|---|---|
| Go Soy 49G16 (check) | 7.9 a | S | |
| J77-339 (check) | 4.6 bc | MR | |
| Petrus Seed 4916 GT (check) | 7.6 a | S | |
| Univ. of Missouri S15-10879C (check) | 7.0 a | S | |
| Univ. of Arkansas R15-2422 | 0.5 e | R | |
| Univ. of Arkansas R16-253 | 0.4 e | R | |
| Univ. of Arkansas UA46i20C | 0.0 e | R | |
| Univ. of Missouri S09-13608C | 0.0 e | R | |
| Univ. of Missouri S16-11644C | 6.8 ab | MS | |
| Univ. of Missouri S16-12137C | 0.0 e | R | |
| Univ. of Missouri S16-14730C | 2.8 cd | R | |
| Univ. of Missouri S16-5503R | 6.2 ab | MS | |
| Univ. of Missouri S16-5540R | 6.7 ab | MS | |
| Univ. of Missouri S16-7922C | 0.3 e | R | |
| Univ. of Missouri S16-8898C | 2.3 d | R | |
| Univ. of Missouri S17-2193C | 0.0 e | R | |
| Univ. of Missouri S17-2243C | 0.0 e | R | |
| | MSE | 42.6 | - |
| | CV (%) | 19.5 | - |
| | <i>P</i> -value for F-statistic | <0.0001 | - |

¹Stem 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.

²Means followed by the same letter(s) within a column are not significantly different according to Fisher's Protected LSD ($P=0.05$).

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