

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

Company/Cultivar¹	Stem Canker rating^{2,3}	Cultivar designation⁴
J77-339 (check)	4.9 a	MR/MS
Petrus 4916GT (check)	5.1 a	MS
Armor 44-D49	0.0 b	R
Armor 45-F02	0.4 b	R
Armor 46-F13	0.0 b	R
Armor 46-F96	0.0 b	R
Asgrow AG42XF2	0.1 b	R
*Asgrow AG43X0	0.0 b	R
*Asgrow AG43XF2	0.0 b	R
Asgrow AG45XF3	0.0 b	R
Asgrow AG46X0	0.0 b	R
*Beck's Hybrids 4443XF	0.0 b	R
Beck's Hybrids 4553XF	0.0 b	R
Delta Grow 44XF41	0.0 b	R
Delta Grow 46X65STS	0.0 b	R
Delta Grow 46XF18	0.0 b	R
Dyna-Gro S43XS70	0.0 b	R
Dyna-Gro S45XF02	0.2 b	R
Dyna-Gro S46XF31S	0.0 b	R
Dyna-Gro S46XS60	0.1 b	R
Gateway Seed 453RXS	0.0 b	R
Gateway Seed 465RXS	0.2 b	R
Gateway Seed 469XF	0.0 b	R
Great Heart Seed GT-4255XS	0.0 b	R
Great Heart Seed GT-4344XF	0.2 b	R
Great Heart Seed GT-4677XS	0.0 b	R
Great Heart Seed GT-4681XFS	0.0 b	R
Innictis A4632XF	5.4 a	MS
Innictis A4642XF	0.1 b	R
Innictis A4662XF	0.0 b	R
Innictis A4690XF	0.0 b	R
*Local Seed LS4299XS	0.0 b	R
Local Seed LS4128XFS	0.0 b	R
Local Seed LS4415XF	0.0 b	R
Local Seed LS4526XF	0.0 b	R
Local Seed LS4606XFS	0.0 b	R
MorSoy MS 4681	0.0 b	R
*NK NK39-T5E3S	0.0 b	R
NK NK42-T5XF	0.0 b	R
NK NK43-V8XF	0.0 b	R
NK NK43-Y9XFS	0.0 b	R
NK NK44-J4XFS	0.0 b	R
NK NK45-P9XF	0.0 b	R
NK 46-B4XFS	0.3 b	R
Progeny P 4200XS	0.0 b	R
Progeny P 4202XFS	0.0 b	R
Progeny P 4444RXS	0.2 b	R
Progeny P 4505RXS	0.0 b	R
Progeny P 4521XFS	0.0 b	R
Progeny P 4604XFS	0.0 b	R
Progeny P 4691XFS	0.0 b	R
MSE	541.4	-
CV (%)	22.8	-

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.