

Response of maturity group IV early Xtend soybean cultivars to stem canker, 2021.

Company/Cultivar¹	Stem canker Rating^{2,3}	Cultivar designation⁴
Agrigold G4440RX (Check)	3.4 a	MR
Progeny P4255 (Check)	6.0 a	MS
USG 7447XTS (Check)	5.2 a	MS
AgriGold G4615XF	0.0 e	R
AgriGold G4620RX	1.3 bc	R
Armor 44-D49	0.0 e	R
Armor 46-D09	0.7 a	R
Armor 46-F13	0.1 de	R
*Asgrow AG43X0	0.1 de	R
Asgrow AG44XF2	0.2 dc	R
Asgrow AG45XF0	0.1 de	R
*Asgrow AG46X6	0.0 e	R
Asgrow AG46XF2	7.0 a	S
Beck's Hybrids 4119X2	0.0 e	R
Credenz CZ 4202XF	0.0 e	R
Credenz CZ 4562XF	0.0 e	R
Delta Grow 46F17/STS	1.0 ab	R
Delta Grow 46X65	0.8 ab	R
DonMario DM42F62S	0.2 de	R
DonMario DM45X61	0.7 ab	R
DonMario DM46F62	0.0 e	R
Dyna-Gro S43XS70	0.0 e	R
Dyna-Gro S46XF31S	0.1 de	R
Dyna-Gro S46XS60	1.3 ab	R
Great Heart Seed GT-4255XS	0.2 de	R
Great Heart Seed GT-4344XF	0.0 e	R
Great Heart Seed GT-4677XS	0.0 e	R
Great Heart Seed GT-4681XFS	0.0 e	R
Innictis Seed A 4111XF	0.0 e	R
Innictis Seed A 4371XF	0.1 de	R
Innictis Seed A 4571XF	0.0 e	R
Innictis Seed A 4618X	0.0 e	R
Innictis Seed A 4690XF	0.0 e	R
*Local Seed Company LS4299XS	0.0 e	R
Local Seed Company LS4415XF	0.0 e	R
Local Seed Company LS4517XFS	0.0 de	R
Local Seed Company LS4606XFS	0.1 de	R
MorSoy MS 4531XF	0.0 e	R
MorSoy MS 4640XF	0.7 ab	R
MorSoy MS 4681 RXT	0.0 e	R
NK NK39-A1XF	0.0 e	R
NK NK43-V8XF	0.0 e	R
NK NK45-P9XF	0.0 e	R
NK S44-C7X	0.0 e	R
*Pioneer P42A96X	0.6 ab	R
Pioneer P46A86X	0.0 e	R
Progeny P 4501XFS	0.0 e	R
Progeny P 4505RXS	0.1 de	R
Progeny P 4521XFS	0.2 de	R
Progeny P 4604XFS	0.0 e	R
USG 7461XFS	1.0 ab	R
MSE	53.7	-
CV (%)	3.4	-
P-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 2021 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.