

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

Company/Cultivar¹	Stem canker Rating^{2,3}	Cultivar designation⁴	
Delta Grow 52X05/STS (check)	6.6 a	MS	
Progeny P5688RX (Check)	5.7 ab	MS	
*Asgrow AG53X0	1.9 bc	R	
Asgrow AG53XF2	0.0 e	R	
Asgrow AG55XF0	0.1 de	R	
Asgrow AG56XF2	0.0 e	R	
Beck's Hybrids 5005XF	0.0 de	R	
Credenz CZ 5282XF	0.0 e	R	
Credenz CZ 5552XF	0.0 e	R	
Delta Grow 52X05 STS	0.3 de	R	
Delta Grow 54F20	0.0 e	R	
DonMario DM51X61	0.0 e	R	
Dyna-Gro S52XT91	0.1 de	R	
Dyna-Gro S56XT99	1.0 de	R	
Great Heart Seed GT-5214X	0.2 de	R	
Great Heart Seed GT-5417X	0.0 e	R	
Innictis Seed A 5341XF	4.7 ab	MR	
Innictis Seed A 5451XF	0.3 de	R	
Innictis Seed A 5558X	0.0 e	R	
Local Seed Co. LS5009XS	0.0 e	R	
Local Seed Co. LS5119XF	0.0 e	R	
Local Seed Co. LS5386X	0.1 de	R	
Local Seed Co. LS5418XFS	0.0 e	R	
Local Seed Co. LS5614XF	0.0 e	R	
NK NK57-A3XF	4.9 ab	MR/MS	
NK S53-F7X	0.2 de	R	
Pioneer P53A67X	0.0 e	R	
Progeny P 5003XF	0.4 de	R	
Progeny P 5016RXS	0.0 e	R	
Progeny P 5252RX	0.0 e	R	
*Progeny P 5424XF	0.1 de	R	
Progeny P 5425XF	0.2 cd	R	
Progeny P 5554RX	0.2 de	R	
	MSE	369.0	-
	CV (%)	28.9	-
	<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 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.