

**Response of Maturity Group V conventional soybean cultivars to stem canker, 2016.**

<b>Company/Cultivar</b>	<b>Stem canker rating<sup>1,2</sup></b>	<b>Cultivar designation<sup>3</sup></b>
J77-339 (Check)	3.13	MR
GoSoy Leland	4.00	MR
Univ. of Arkansas Osage	6.44	MS
Univ. of Arkansas R09-430	3.94	MR
Univ. of Arkansas R10-230	3.78	MR
Univ. of Arkansas UA 5014C (R05-3239)	2.69	R
Univ. of Arkansas UA 5213C	1.97	R
Univ. of Arkansas UA 5612	3.47	MR
Univ. of Arkansas UA 5814HP (R09-3789)	2.41	R
Univ. of Missouri S11-17025	0.44	R
Univ. of Missouri S11-20214	4.56	MR
Univ. of Missouri S12-4718	2.44	R
USDA-ARS JTN-5110	1.31	R
LSD (0.05)	3.9	-
CV (%)	86.6	-
<i>P</i> -value for F-statistic	0.2715	-

<sup>1</sup>Stem Canker Reaction-8 plants per plot were inoculated with 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 eight 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.

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

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