

**Response of Maturity Group IV late soybean cultivars to stem canker, 2018.**

| <b>Company/Cultivar</b>        | <b>Stem canker rating<sup>1,2</sup></b> | <b>Cultivar designation<sup>3</sup></b> |
|--------------------------------|---|---|
| Dyna-Gro 39RY43 (Check)        | .                                       | .                                       |
| AgriGold G4990RX (2017 check)  | 5.5 a                                   | MR                                      |
| Dyna-Gro S49XS88 (2017 check)  | 3.6 bc                                  | MR                                      |
| AgriGold G4995RX               | 1.4 def                                 | R                                       |
| AGS GS 48X18                   | 0.5 ef                                  | R                                       |
| Armor 47-D17                   | 1.0 ef                                  | R                                       |
| Armor 48-D24                   | 0.0 f                                   | R                                       |
| Armor X47D22                   | 1.8 de                                  | R                                       |
| Armor X48D02                   | 1.0 ef                                  | R                                       |
| Armor X49D31                   | 0.3 ef                                  | R                                       |
| Asgrow AG47X9                  | 0.0 f                                   | R                                       |
| Asgrow AG48X9                  | 0.0 f                                   | R                                       |
| Asgrow AG49X9                  | 0.0 f                                   | R                                       |
| Croplan RX4825                 | 0.0 f                                   | R                                       |
| Croplan RX4927                 | 0.6 ef                                  | R                                       |
| Delta Grow DG 4790 RR2         | 0.3 ef                                  | R                                       |
| Delta Grow DG 48X45RR2 Xtend   | 0.7 ef                                  | R                                       |
| Dyna-Gro S48XT56               | 0.0 f                                   | R                                       |
| Dyna-Gro S49XT39               | 0.3 ef                                  | R                                       |
| Go Soy 49G16                   | 2.7 cd                                  | MR                                      |
| Great Heart GT-4721X           | 1.3 def                                 | R                                       |
| Great Heart GT-4809X           | 0.0 f                                   | R                                       |
| Great Heart GT-4833XS          | 0.4 ef                                  | R                                       |
| Great Heart GT-4979X           | 0.2 ef                                  | R                                       |
| Local Seed Co. AV47W2X         | 0.1 ef                                  | R                                       |
| Local Seed Co. AV49W3X         | 0.0 f                                   | R                                       |
| Local Seed Co. LS4889XS        | 0.9 ef                                  | R                                       |
| Local Seed Co. LS4966X         | 0.1 ef                                  | R                                       |
| Local Seed Co. LS4968XS        | 0.0 f                                   | R                                       |
| Local Seed Co. LS4988X         | 0.1 ef                                  | R                                       |
| Mission Seed Solutions MEX4808 | 0.2 ef                                  | R                                       |
| Mission Seed Solutions MEX4908 | 0.0 f                                   | R                                       |
| MorSoy MS 4846 RXT             | 0.2 ef                                  | R                                       |
| NK Seeds S48-R2X               | 0.0 f                                   | R                                       |
| Petrus Seed 479 GTS            | 1.5 def                                 | R                                       |
| Petrus Seed 4916 GT            | 4.8 ab                                  | MS                                      |
| Pioneer 48A32X                 | 0.0 f                                   | R                                       |
| Pioneer P48A60X                | 0.0 f                                   | R                                       |
| Progeny P4757RY                | 0.3 ef                                  | R                                       |
| Progeny P4799RXS               | 0.0 f                                   | R                                       |
| Progeny P4816RX                | 0.0 f                                   | R                                       |
| Progeny P4851RX                | 0.0 f                                   | R                                       |
| Progeny P4955RX                | 0.3 ef                                  | R                                       |
| Progeny P4994RX                | 0.2 ef                                  | R                                       |
| Terral REV 47A98               | 0.0 f                                   | R                                       |
| Terral REV 4857X               | 0.0 f                                   | R                                       |

|                                 |         |   |
|---------------------------------|---------|---|
| Terral REV 48A26                | 1.3 def | R |
| Terral REV 4927X                | 1.2 def | R |
| Univ. of Missouri S14-15138R    | 0.0 f   | R |
| Univ. of Missouri S14-9051R     | 0.0 f   | R |
| USG 7489XTS                     | 0.0 f   | R |
| USG 7496XTS                     | 0.0 f   | R |
| LSD (0.05)                      | 1.7     |   |
| CV (%)                          | 183.0   |   |
| <i>P</i> -value for F-statistic | <0.0001 |   |

<sup>1</sup>Stem Canker Reaction-Eight 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.