SCREENING OF SOYBEAN VARIETIES AGAINST GIRDLE BEETLE

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Abstract: Twelve advanced varieties (AVT) of soybean were screened against girdle beetle under randomized block design in which plot size was 1m x 5m, row to row spacing 30 cm replicate twice. The observations were taken at fortnightly interval by counting total numbers of girdle beetle affected plants out of total numbers of plants in each plot. The observations were initiated with first appearance of girdle beetle on the crop. Based on seasonal mean of girdle beetle infestation the per cent plant damage ranged from 1.57 to 7.91 per cent. The variety NRC-37 with 1.57 per cent infested plants was least infested by girdle beetle followed by Bragg, JS-20-06, and NRC-77 with 1.73, 2.73 and 2.74 per cent infested plants, respectively. Variety RKS-54 with 7.91 per cent infested plants was most damaged by girdle beetle. The grain yield from different varieties ranged from 1720 to 2220 kg/ha. Highest yield was recorded in NRC-77 which was almost similar to that obtained in Bragg and NRC-37 with 2210 and 2200 kg/ha, respectively.

Keyword: Girdle beetle, Soybean, Screening, Genotype, Population dynamic, Bragg, NRC-37

REFERENCES


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