

SCREENING OF SOYBEAN VARIETIES AGAINST GIRDLE BEETLE

Dinesh Sinha and Harish Kumar Netam

Department of Entomology

Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.), India

**E-mail: harish.netam15@gmail.com*

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

- DSR**, (2005). Annual Report of All India Coordinated Research Project on soybean, National Research Centre for soybean, Khandawa Road, Indore (M.P.).
- DSR**, (2006). Annual Report of All India Coordinated Research Project on soybean, National Research Centre for soybean, Khandawa Road, Indore (M.P.).
- DSR**, (2007). Annual Report of All India Coordinated Research Project on soybean, National Research Centre for soybean, Khandawa Road, Indore (M.P.).
- DSR**, (2008). Annual Report of All India Coordinated Research Project on soybean, National Research Centre for soybean, Khandawa Road, Indore (M.P.).
- Gangrade, G.A.** (1976) Terminal Technical Report on The Project "Assessment of effects on yield and quality of soybean caused by major arthropod pests", Deptt. of Ent. , J. N. Agril., univ. , Jabalpur, 143 pp.
- Gaur, S.K., and Deshpande, R.R.** (1998). Relative susceptibility of soybean *Glycine max* (E) varieties to insect pests complex. Ind. J. Plant Prot. 26(2): 186-187
- Salunke, S. G., Bidgire, U.S., More, D.G., and Keshbhat, S.S.** (2002). Field evaluation of soybean cultivars for their major pests. Journal of Soils and Crops. 12(1): 49-55
- Schoffel, E.R., Volpe, C.A., Athayde, M.L.F. and Pavani, L.C.** (2003). Stability of yield components of soybean cultivars as a function of sowing date and irrigation. Cientifica Jaboticabal. 31(2): 167 -178
- Upadhyay, S., Sharma S., and Mishra, R.C.** (1999). Effect of girdle beetle (*Oberea brevis*) on quantitative characters of soybean (*Glycine max*) cultivars. Ind. J. of Agril. Sci. 69(11): 806-807.