

RESEARCH ARTICLE

Effectiveness of different pest management modules on plant growth and yield of bell pepper (*Capsicum annuum* L.)

■ Rinkey Arya and R.S. Rana

SUMMARY

An investigation was carried out at experimental farm of Department of Seed Science and Technology, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan (H.P.) on bell pepper (*Capsicum annuum* L.) having nine different treatment combinations. The trial conducted in two consecutive years (2018 and 2019) with Randomized Complete Block Design. The experimental results revealed that all the treatment combination performed significantly superior than control. The treatment T₂: Seed treatment with *Trichoderma* spp. @ 10 g/kg seed + vermicompost @ 50 q/ha + *Neem* cake application @ 12g/plant + foliar application of NPV @ 1 g/l once in 7 days (after borers appearance) recorded highest plant height (62.59 cm), higher number of branches per plant (5.77), highest number of fruits per plant (21.02), maximum fruit weight (49.85) and highest fruit yield (1047.73 g/plant, 9.43 kg/plot and 310.44 q/ha) as compared to the control. In overall investigation, the results concluded that the application of *Trichoderma* sp. along with vermicompost, neem cake and NPV gives better results in bell pepper cultivation to obtain higher crop growth and yield.

Key Words : Bell pepper, *Trichoderma* sp., Vermicompost, *Neem* cake, Yield

How to cite this article : Arya, Rinkey and Rana, R.S. (2021). Effectiveness of different pest management modules on plant growth and yield of bell pepper (*Capsicum annuum* L.). *Internat. J. Plant Sci.*, 16 (1): 25-30, DOI: 10.15740/HAS/IJPS/16.1/25-30, Copyright@ 2021: Hind Agri-Horticultural Society.

Article chronicle : Received : 16.03.2020; Revised : 06.11.2020; Accepted : 05.12.2020

MEMBERS OF THE RESEARCH FORUM

Author to be contacted :

Rinkey Arya, Department of Seed Science and Technology, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, **Solan (H.P.) India**
Email : aryarinkey555@gmail.com

Address of the Co-authors:

R.S. Rana, Department of Seed Science and Technology, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, **Solan (H.P.) India**