



## Performance evaluation of capsicum crop in open field and under covered cultivation

K.V. RAMANA RAO\*, VIJAY AGRAWAL, LAVESH CHOURASIA, RAVISH KESHRI AND G.P. PATEL  
Precision Farming Development Centre, Central Institute of Agricultural Engineering, BHOPAL (M.P.) INDIA  
(Email : kvramanarao@yahoo.com)

**Abstract :** The performance of capsicum crop in open field and under covered cultivation was evaluated at Precision Farming Development Centre experimental field at Bhopal during December, 2011 to May, 2012. Under covered cultivation, black colour shade net having 50% shade factor was used in the study. Same crop cultural practices in the open field and under covered cultivation were adopted for comparison. Drip irrigation system was adopted in both the cases and irrigation system parameters such as frequency of irrigation and wetting pattern were collected. Other parameters such as soil temperature, duration of the crop, morphological parameters of the crop and yield were monitored. The study revealed that under shade net the crop yield was increased by 80 per cent over open field cultivation along with water saving of about 40 per cent in covered cultivation. The wetting pattern from the emitting device of 2 lph indicated maximum spread of 40 cm from emitter in case of crop under covered cultivation where as in open field the spread was 25 cm. Duration of the crop was also extended by 40 more days under covered cultivation.

**Key Words :** Open field, Covered cultivation, Shade net, Shade factor, Micro irrigation system, Capsicum crop

**View Point Article :** Ramana Rao, K.V., Agrawal, Vijay, Chourasia, Lavesh, Keshri, Ravish and Patel, G.P. (2013). Performance evaluation of capsicum crop in open field and under covered cultivation. *Internat. J. agric. Sci.*, **9**(2): 602-604.

**Article History :** Received : 21.06.2012; Revised : 08.03.2013; Accepted : 08.04.2013