Research Paper

ADVANCE RESEARCH JOURNAL OF
C R P
IMPROVEMENT
Volume 5 | Issue 2 | Dec., 2014 | 176-180
e ISSN-2231-640X

DOI :
10.15740/HAS/ARJCI/5.2/176-180
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Effect of concentrations and methods of application of 2, 4-D and NAA on plant growth, flowering, yield and quality in summer season chilli (*Capsicum annuum* L.) cv. PANT C-1

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ABSTRACT : The present investigation was undertaken during summer season of 2010-11 at Horticulture Research Farm of Gochar Mahavidhyalaya, Rampur Maniharan, Saharanpur, U. P. on chilli cv. PANT C-1 to find out the most suitable concentration, time and method of application of plant growth regulators for growth, flowering, fruit set, yield and quality in chilli. Among different concentrations of plant growth regulators, 45 ppm NAA was found superior to all other treatments in respect of most of the plant growth and flowering characters, while, among methods of application, seedling root dip for 30 minutes along with double spray at flower bud initiation stage and 20 days later to it, was found superior for plant growth and quality. Improved yield and yield characters were observed in treatment combination, M_5C_3 (45ppm NAA used as seedling root dip for 30 minutes along with double spray). Applications of plant growth regulators promoted fruit set and thus, yield by influencing the percentage of short styled flowers in chilli cv. PANT C-1.

Key **W**ords : 2, 4-D, NAA, Chilli, *Capsium annuum*

How to cite this paper : Arora, Indu, Singh, J.P. and Singh, R.K. (2014). Effect of concentrations and methods of application of 2, 4-D and NAA on plant growth, flowering, yield and quality in summer season chilli (*Capsicum annuum* L.) cv. PANT C-1. *Adv. Res. J. Crop Improv.,* **5** (2) : 176-180.

Paper **H**istory : **Received :** 31.07.2014; **Revised :** 12.11.2014; **Accepted :** 23.11.2014