

DEVELOPMENT OF PACKAGE OF PRACTICES FOR OPEN FIELD CULTIVATION OF CAPSICUM (*CAPSICUM ANNUM L.*)

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Abstract: The genus *Capsicum* (*Capsicum annuum* L.) belongs to the family Solanaceae it is grown in several parts of the world and is believed to be the native of Tropical South America. The domesticated peppers could be broadly classified into sweet and hot types based on their level of pungency. The bell pepper (*Capsicum annuum* (L.), $2n = 24$) is commonly known as sweet pepper, capsicum or green pepper. The present investigation was carried out at the Horticultural Research Farm, Precision Farming Development Centre, Department of Horticulture, Indira Gandhi Krishi Vishwavidyalaya, Raipur Chhattisgarh with effect of different types of plastic mulches with four levels of fertigation and three levels of mulching. The results under this study the 80% RDF through fertigation gave maximum fruit yield followed by 100% RDF through fertigation with maximum plant height and number of leaves. The *Capsicum* cv. Indra hybrid is most important vegetable and can be grown profitably under plastic mulch. Silver polyethylene mulch was significantly superior over Black Polyethylene mulch paddy straw mulch and without mulch. The study also revealed that the net income and benefit cost ratio was observed higher in 80% water through drip irrigation as compared to traditional method of irrigation.

Keywords: Capsicum, Fertigation, Plastic mulches, RDF

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