

# RESPONSE OF POTATO CULTIVARS TO VARYING LEVELS OF NITROGEN UNDER CHHATTISGARH PLAINS IN DORSA SOIL

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**Abstract:** The field experiment was conducted during Rabi 2009-10 at the Research cum Instructional Farm, Department of Horticulture, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.) to study the response of potato cultivars to varying levels of nitrogen under Chhattisgarh plains in dorsa soil. The experiment consisted of nine treatments comprising three varieties viz. Kufri Pukhraj, Kufri Jawahar and Kufri Khyati with three nitrogen levels 150, 187 and 225 kg N/ha. Variety Kufri Pukhraj was found significantly superior from the other two varieties for growth parameters and yield parameters. The interaction between Kufri Pukhraj combined with 225 kg/ha N was found remarkably superior to all the other treatment combinations as regards to number of leaves per plant.

**Keywords:** Fertilizers, potato cultivars, yield

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