



RESEARCH PAPER

Yield performance and nutrient content, uptake as influenced by herbicides and row spacing in wheat crop (*Triticum aestivum* L.)

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Abstract : A field experiment was conducted during *Rabi* season of 2011-12 at Instructional Farm (Agronomy), Rajasthan College of Agriculture, Udaipur. The experiment consisted of six weed control treatments (pinoxaden 40 g ha⁻¹, isoproturon 750 g ha⁻¹, metribuzin 400 g ha⁻¹, sulfosulfuron 25 g ha⁻¹, idosulfuron 25 g ha⁻¹ and weedy check) and three row spacings (17.5 cm, 20.0 cm and 22.5 cm) making eighteen combinations. These treatments were evaluated in Factorial Randomized Block Design with three replications. All the herbicide significantly increased N, P and K content and uptake by wheat grain as well as straw over weedy check. The maximum N, P and K uptake by crop was recorded with the application of isoproturon which was significantly superior over all other treatments. Row spacing did not differ significantly with nutrient content in grain and straw but nutrient uptake varied with row spacing. Row spacing of 17.5 cm recorded maximum N, P and K uptake by wheat grain and found superior to 20.0 and 22.5 cm row spacing in this respect while, uptake by straw did not differ significantly with each other.

Key Words : Wheat, Metribuzin, Isoproturon, Sulfosulfuron, Row spacing, Herbicides, Content, Uptake

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