

YIELD ATTRIBUTES AND YIELD OF RICE (*ORYZA SATIVA* L.) AS INFLUENCED BY INTEGRATED WEED MANAGEMENT IN SYSTEM OF RICE INTENSIFICATION (SRI) UNDER CHHATTISGARH PLAINS

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Abstract : An experiment carried out to find out the yield attributes and yield of rice (*Oryza sativa* L.) as influenced by integrated weed management in system of rice intensification (SRI) under Chhattisgarh plains during *Kharif* season of 2009 at Research cum-Instructional Farm, Department of Agronomy, IGKV, Raipur (C.G.). The experiment laid out in Randomized Block Design (RBD) with three replications. Results revealed that post-emergence combined application of Fenoxaprop-p-ethyl 60 g ha⁻¹+ Ethoxysulfuron 15 g ha⁻¹ at 20 and 35 DAT was statistically at par with hand weeding (twice) at 20 and 40 DAT for producing yield attributing characters like plant height, test weight, number of grain panicle⁻¹ etc. under system of rice intensification method of rice. Grain yield and straw yield was recorded maximum under the post-emergence application of Fenoxaprop-p-ethyl 60 g ha⁻¹+ Ethoxysulfuron 15 g ha⁻¹ at 20 and 35 DAT followed by hand weeding twice. However, both were comparable. All the treatments gave significantly higher seed yield than unweeded control. The highest gross return and B:C ratio was obtained from Fenoxaprop-p-ethyl 60 g ha⁻¹+ Ethoxysulfuron 15 g ha⁻¹ at 20 and 35 DAT followed by hand weeding and lowest from unweeded control.

Keyword : Weed management, yield attributes, integrated weed management, rice

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