

RESPONSE OF DIFFERENT HERBICIDES FOR CONTROL OF WEEDS IN TRANSPLANTED RICE (*ORYZA SATIVA L.*)

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ABSTRACT : A field experiment was conducted during rainy season of 2003 at Crop research Farm of Department of Agronomy Allahabad Agricultural Institute-Deemed University, Allahabad on sandy loam soil to study the effect of some herbicides with hand weeding and weedy check (control) in transplanted rice. Treatments consisted of Ethoxysulfuron at 0.10 kg/ha Cinmethylin at 0.75 kg. Butachlor at 1.5 kg. Butachlor at 1.0 kg in combination with 2,4-D at 0.75 kg/ha, hand weeded and weedy check. All the weed control treatments were laid out in a Randomized block design, replicated thrice. The major weed flora consisted of *Caesulia axillaris* *Ammania baccifera*, *Echinochloa colonum*, *Cyperus iria* and *Fimbrisotylis meliacea*. Among the herbicide treated plots, Ethoxysulfuron at 0.10 kg/ha was found to be the best in controlling and reduction weed population and dry weight, resulting in higher number of effective tiller/plants, weed control efficiency and weed index which resulted in higher grain yield next to hand weeded plot.

Key Words : Herbicides, weed control, *Oryza sativa* L.