

EFFECT OF POST EMERGENCE HERBICIDES ON GROWTH AND YIELD OF SOYBEAN

A. Patel¹, N. Spare¹, G. Malgaya² and Dharmendra*¹JNKVV, College of Agriculture, Department of Agronomy, Jabalpur (M.P.) 482004²JNKVV, Department of Agronomy, College of Agriculture, Rewa (M.P.) 486001

JNKVV, Department of Agriculture Extension, College of Agriculture, Rewa (M.P.) 486001

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Abstract: Soybean (*Glycine max* L. Merrill) is one of the commercial crops in India. It grown as *kharif* crop, but weed infestation is the major constraint in soybean produce in rainy season. A field experiment was conducted at Research farm, Department of Agronomy, Jawaharlal Nehru Kirshi Vishwa Vidyalaya, Jabalpur (M.P.) during *kharif* 2016 to evaluate the bio-efficacy of post emergence herbicides against weed control in soybean. Among all herbicidal treatment the post emergence application of Imazethapyr+Propaquizafop 75.0+62.5 g/ha recorded highest number of pods/plant (26.10), higher number of seed/pod (2.40), 100 seed weight (9.93), seed yield (2100 kg/ha), haulm yield (3900 kg/ha), net returns (26585 Rs/ha) and B:C ratio (1.75), which was comparable with the application of Imazethapyr + Bentazone 75+75 g/ha.

Keywords: Herbicide, Benefit cost ratio, Net return, Weed control efficiency

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*Corresponding Author