

On Farm Evaluation of Post Emergence Herbicides for Control of *Echinochloa* spp. in Rice Fallow Blackgram (*Vigna radiata* L)

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ABSTRACT

An on farm trial was conducted on farmers' fields in Krishna Western Delta of Guntur district in Andhra Pradesh at two locations each during rabi 2003-04 and 2004-05 to evaluate the efficacy of post emergence herbicides to control *Echinochloa* spp in rice fallow black gram. Results indicated that all the post emergence herbicides effectively controlled *Echinochloa* spp. with a WCE ranging from 83 to 90 per cent and also increased the grain yield ranging from 40 to 47 per cent when compared to weedy check. Among the herbicides, post emergence application of cladinofop proparxyl 52.5 g/ha recorded the highest seed yield (922kg/ha) but considering economics, fenoxaprop ethyl 56.25 g/ha was found to be the most economical with an ICBR of 3.93.

Key words : Echinocloa sp., Rice fallow black gram, Post emergence herbicides.