

Effect of Some New Generation Herbicides in Rainfed Upland Rice (*Oryza sativa*)

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ABSTRACT

Field experiments were conducted at Naira for three consecutive *kharif* seasons from 2004 to 2006 to study the efficacy of new generation herbicides on rainfed upland rice. Grain yield reduction due to uncontrolled weed growth was 59.8% over weed free check. Results indicated that pre-emergence application of oxadiargyl @ 80 g *a.i./* ha + working with star weeder at 40 DAS resulted in improved weed control and higher grain and straw yield and proved economically remunerative over butachlor and pretilachlor plots. Though pre-emergence application of metsulfuron methyl 10% + chlorimuron ethyl 10% @ 8 g *a.i./* ha resulted in superior weed control but the enhanced efficacy could not be translated to better yield due to its phytotoxicity on rice crop

Key words : Grain yield, New generation herbicides, Pre-emergence application, Rainfed upland rice