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Research Article

Effect of various weed control treatment on economics of direct seeded rice under puddle condition

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SUMMARY : The present investigation was conducted at Instructional Farm of Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.) India during the *Kharif* season (June-October) 2008. The experiment was laid out in Randomized Block Design comprised of eight treatments of various combinations of different herbicides *viz.*, T_1:PIH 2023 10% SC 15 g a.i/ha at 18 DAS; T_2: PIH 2023 10% SC 20 g a.i/ha at 18 DAS; T_3: PIH 2023 10% SC 25 g a.i/ha at 18 DAS; T_4: PIH 2023 10% SC 30 g a.i/ha at18 DAS; T_5: PIH 202310% SC 60 g a.i/ha at 18 DAS T_6: Almix 20% WP 4 g a.i/ha 18 DAS; T_7:Control (unweeded check) and T_8: Hand weeding at 30 DAS with three replications. Rice cultivar "IR-64" was grown as a test crop. Rice was manually sown with a seed rate of 60 kg ha^{-1} on 25th July, 2006 and harvested on 15th and 16th November, 2006. The crop was fertilized with 100:60: 40 kg NPK ha^{-1}, respectively. Results revealed that almost all growth parameters, yield attributes and grain yield were maximum under of PIH 2023 10% SC @ 60 g a.i ha^{-1} over rest of the treatments. *Echinochloa colona*, *Cyperus* spp., *F. miliaceae*, *L. hyssopifolia* were the pre-dominant weeds in experimental plot. Minimum weed density was noted under post emergence application of almix 4 g ha^{-1} and PIH 2023 25 g ha^{-1} at 20, 40, 70 and 90 DAS. Whereas, at harvest lower dry matter of weeds and highest weed control efficiency was recorded under almix 4 g ha^{-1} (T_6), PIH 2023 25 g ha^{-1} and PIH 2023 60 g ha^{-1}, respectively. It was found effective to control broad spectrum of weeds *viz.*, grasses, sedges and forbs.

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