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RESEARCH PAPER

Pyroxasulfone 50g/l + Pendimethaline 400g/l ZC: A new preemergence herbicide combination for controlling weeds in wheat

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Abstract : A two year field experiment was conducted at instructional farm ofRajmata VijayarajeScindia Krishi Vishwa Vidyalaya, Krishi Vigyan Kendra, Sheopur during 2017-18 and 2018-19 in randomized block design replicated three times with the objective to evaluate the efficacy of new herbicidecombinationpyroxasulfone 50g/ l + pendimethaline 400g/l ZC for weed control in wheat. The treatments included pyroxasulfone 50g /l + pendimethaline 400g/ l ZC at 450, 675, 900, 1125g ai/ha, pyroxasulfone 82% WG 100g ai/ha, pendimethaline 38.7% CS 800g ai/ha, pendimethaline 30% EC 1500g ai/ha as pre-emergence, hand weeding and unsprayed weedy check. The results indicated that pyroxasulfone 50g/l + pendimethaline 400g/l ZC at 1125g ai/ha gave effective control of grassy as well as broad leaf weeds and recorded highest wheat grain yield of 5934kg and 6072kg/ha during 2017-18 and 2018-19, respectively. The current study indicated that pre-emergence application of pyroxasulfone 50g/l + pendimethaline 400g/ l at 1125 g ai/ha would be a suitable option for the control of grassy as well as broad leaf weeds in wheat in Madhya Pradesh.

Key Words : Wheat, Pyroxasulfone, Pendimethaline, Weed

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