EFFECT OF POST EMERGENCE HERBICIDE FOR WEED MANAGEMENT IN FINGER MILLET

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Abstract: There were thirteen treatments which comprised single application of different post-emergence herbicides either alone or in combination and hand weeding was conducted on Chayey Vertisols soil of College of Agriculture, Raipur during kharif season of 2012. Echinochloa colona among grasses, Cyperus iria among sedges and Alternanthera triandra, Eclipta alba and Phyllanthus urinaria among broad leaf weeds were dominant. Application of metsulfuron methyl + chlorimuron ethyl and ethoxysulfuron alone was found most suitable for weed control without any harm to the crop. There was complete control of broad leaf weeds viz. Alternanthera triandra, Eclipta alba and Phyllanthus urinaria and sedges i.e. Cyperus iria by the application of metsulfuron methyl + chlorimuron ethyl and ethoxysulfuron, where as grassy weed i.e. Echinochloa colona was completely killed by the application of fenoxaprop-p-ethyl. Hand weeding twice recorded the highest grain yield and net return. Application of ethoxysulfuron registered the highest B:C ratio which was at par with metsulfuron methyl + chlorimuron ethyl and hand weeding twice.

Keywords: Weed management, Finger millet

REFERENCES