

EFFECT OF POST EMERGENCE HERBICIDE ON GROWTH AND YIELD OF FINGER MILLET

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Abstract: The experiment comprising 13 weed management practices which comprised single application of different post-emergence herbicides either alone or in combination and hand weeding was conducted on Clayey *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. Hand weeding twice recorded the highest grain yield and net return. This higher yield in Hand weeding twice was reflected in terms of better yield parameter like Number of fingers m⁻², finger length, number of fingerlet finger⁻¹, grains finger⁻¹ and test weight and growth parameter like plant height, dry matter accumulation, Number of tillers. 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, herbicide

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