

COMPARATIVE EFFICACY OF BIO AGENTS FOR THE MANAGEMENT OF WILT DISEASE OF PIGEONPEA [*CAJANUS CAJAN* (L.) MILLSP.]

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ABSTRACT

*Pigeonpea is an important pulse crop in India, accounting for almost 90% of world's area and production, affected by the several pathogens. Wilt caused by *Fusarium udum* is a most important disease of Pigeonpea. A trial was conducted to evaluate the effectiveness of above selected biocontrol agents against the wilt of pigeonpea under pot condition. The treatments were *Trichoderma viride* @ 5gm/kg of soil, *T. harzianum* @ 5gm/kg of soil with FYM and without FYM against the *Fusarium udum* as soil treatment and Neem cake, Carbendazim also taken for comparison in the pot conditions. All the treatments significantly reduce the wilt incidence but *Trichoderma viride* with (88.89 %) disease inhibition recorded most effective followed by *T. viride* +FYM (87.84 %), Carbendazim (87.13 %), *T. harzianum* (81.22 %), *T. harzianum*+FYM (80.04 %), Neem cake (70.61 %) over the control. The germination percentage was also increase with all treatment but *T. viride* was increase highest germination percentage followed by rest of treatments over the control.*

KEYWORDS: *Pigeonpea, Wilt Disease, *Fusarium udum*, *Trichoderma* sp., Management*

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