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Effect of genotypes and levels of fertilizer on seed yield and economics of french bean (*Phaseolus vulgaris* L.)

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ABSTRACT

A field experiment was carried out during *Rabi* season of 2005-06 at Department of Agronomy farm, Marathweda Agricultural University, Parbhani to investigate the Effect of genotypes and levels of fertilizer on seed yield and economics of french bean (*Phaseolus vulgaris L*). The experiment was laid out in Factorial Randomized Block Design with three replications. Each replication consisted of twelve treatment combinations of four varieties *i.e.* Contender, Waghya, HPR-35, Varun and three fertility levels 90:45:45 NPK kg. ha^{-1}, 120:60:60 NPK kg.ha^{-1}, 150:75:75NPK kg.ha^{-1}.Variety V_3-HPR 35 recorded significantly higher seed and straw yield over rest of the varieties. It also recorded highest values of gross and net monetary returns as well as Benefit: Cost ratio. Application of 120:60:60 NPK kg.ha^{-1} was at par with 150:75:75 NPK kg.ha^{-1} and recorded significantly higher seed yield over application of 90:45:45 NPK kg.ha^{-1}. Highest values of gross monetary returns were recorded by application of 150:75:75 NPK kg.ha^{-1}. However, application of 120:60:60 NPK kg.ha^{-1} recorded higher net monetary returns and Benefit: Cost ratio compared to application of 150:75:75 NPK kg.ha^{-1} and 90:45:45 NPK kg.ha^{-1}.

Key words : French bean, Economics, Grain yield and Fertility level

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