EFFECT OF ORGANIC MANURES ON YIELD AND ITS COMPONENTS OF COMMON BEAN (*Phaseolus vulgaris.L*.)

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ABSTRACT

A field experiment was conducted for two consecutive seasons (2004/05-2005/06) to study the effect of organic manures on yield and its components of common bean (*Phaseolus vulgaris.L.)* under irrigation. The experiment was conducted in the Experimental Farm of the Faculty of Agriculture at Shambat. The experiment was laid out in a factorial randomized complete block design with four replicates. Improved local white seeded cultivar of common bean (RO/21) was used in the experiment. The treatments consisted of two farmyard manure levels: No farmyard manure (FYM0) and 25 tons/ha (FYM1), and two rates of chicken manure, no chicken manure (CM0) and 10 tons/ha (CM1). The results showed that, number of seeds per pod, fruit setting percentage and 100-seed weight were significantly increased by application of farmyard manure. Chicken manure application significantly increased the number of pods per plant, fruit setting percentage, 100-seed weight and seed yield. In addition there were significant effects of interactions between farmyard manure and chicken manure on some yield attributes.

Key Words: Organic Manure, Common Bean, Seed Yield