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Effect of integrated nutrient management on growth and yield of maize (*Zea mays* L.)

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ABSTRACT

An experiment was conducted during *Rabi* season of 2007-08 on sandy loam soil at Agriculture college, V.C. farm, Mandya, Karnataka to study the effect of integrated nutrient management on growth and yield of maize (*Zea mays* L.). The study comprised of twelve treatments consisting of four different organic sources of nutrients combined with 50, 75 and 100 per cent recommended dose of fertilizer. The results revealed that combined application of recommended dose of NPK (150:75:40 kg/ha) + FYM 10 t/ha recorded higher plant height (213.6 cm), total dry matter production (368.5 g/plant), number of grains per cob (458.5), grain weight per cob (166.9 g), test weight (38.9 g) and grain yield (65.9 q/ha). Lowest plant height (171.6 cm), total dry matter production (250.4 g/plant), number of grains per cob (290.8), grain weight per cob (127.7 g), test weight (27.7 g) and grain yield (47.3 q/ha) were noticed in the treatment receiving 100 per cent recommended dose of NPK through chemical fertilizer (150:75:40 kg/ha).

Key words : Growth, yield, maize, INM

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