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Research Paper

Effect of different organic manures and inorganic fertilizers on growth and yield of brinjal (*Solanum melongena* L.)

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ABSTRACT

Treatments with organic manures, inorganic fertilizers and their combinations showed significant difference for growth and yield of brinjal crop. Application of recommended 25 t/ha of FYM N through vermicompost and green manure (50% each) + recommended NPK (125:100:50 kg/ha) recorded maximum plant height, number of leaves and total dry matter of plant. The number of branches was highest in the treatment of 150% recommended FYM only, while the maximum Chlorophyll content of the leaves was recorded with application of FYM N through FYM and green manure (50% each) + recommended NPK. Earliness for first, fifty per cent flowering and first harvest was observed with 100 per cent recommended FYM alone. Application of recommended FYM + NPK recorded maximum yield per plot, per hectare and harvest index during late *Rabi* season of 2004-2005, these treatments were significantly superior to recommended inorganic fertilizer treatment, as well as to application different doses of organic manures alone such as FYM and vermicompost, this indicated that integration of both organic manures and inorganic fertilizers was important to improve the growth and yield characteristics of the crop.

Key words : Vermicompost, FYM, NPK, Dry matter, Chlorophyll, Harvest index

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