

## Effect of Integrated Nutrient Management on growth and yield of garlic (*Allium sativum* L.)

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**ABSTRACT :** The present investigation entitled effect of integrated nutrient management on growth and yield of garlic (*Allium sativum* L.) was under taken at Horticultural Instructional Farm, C. P. College of Agriculture, S. D. Agricultural University, Sardarkrushinagar in *Rabi* season 2010-11. The experiment was laid out in Randomized Block Design with four replications and nine treatments *viz.*, T<sub>1</sub> (RDF-100:50:50), T<sub>2</sub> (50% N in form of FYM+ 50% N in form of inorganic), T<sub>3</sub> (100% N in form of FYM), T<sub>4</sub> (50% N in form of de oil castor cake+ 50% N in form of inorganic), T<sub>5</sub> (100% N in form of de oil castor cake), T<sub>6</sub> (50% N in form of poultry manure+ 50% N in form of inorganic), T<sub>7</sub> (100% N in form of poultry manure), T<sub>8</sub> (50% N in form of vermicompost+ 50% N in form of inorganic) and T<sub>9</sub> (100%N in form of vermicompost). At 30, 60, 90 and 120 DAP, the treatment T<sub>2</sub> (50% N in form of FYM+ 50% N in form of inorganic) recorded the significantly maximum plant height (38.50, 49.25, 52.25 and 54.25 cm, respectively), number of leaves plant<sup>-1</sup> (5.10, 8.10, 10.12 and 11.19 cm, respectively), neck thickness (0.56, 0.66, 0.86 and 1.02 cm, respectively) at 30, 60, 90 and 120 DAS. Similarly treatment T<sub>2</sub> recorded the minimum days to maturity (132.75) and number of cloves bulb<sup>-1</sup> (21.75) with maximum diameter of bulb (5.60 cm), average weight of bulb (28.18 g), weight of 100 cloves (86.25 g) and yield plot<sup>-1</sup> (6.61 kg) and yield hectare<sup>-1</sup> (34425 kg).

**Key Words :** Garlic, INM, Organic and inorganic nutrients

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