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Research Paper

Effect of different sources of nitrogen on growth and yield of guava (*Psidium guajava* L.) cv. SARDAR

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ABSTRACT

In order to estimate the effect of organic and inorganic sources of nitrogen the present experiment was conducted on 5 years old Sardar guava trees growing at Instructional- cum Research Farm, Department of Horticulture, College of Agriculture, Latur during 2009-2010. For the investigation different sources of nitrogen *viz.,* urea, vermicompost, neem cake, FYM, poultry manure and green manure in different combinations were used. The results of experiment revealed that integration of organic manures and inorganic fertilizers was more effective in increasing growth and yield of guava trees than the inorganic fertilizers alone. Among the various combinations 75% of nitrogen through urea along with 25% nitrogen through neem cake (T_4) was found the best over all the treatments in respect of vegetative growth parameters like increasing tree height (39.7 cm), tree spread (38.00 cm E-W), stem girth (5.30 cm), shoot length (24.82 cm), reproductive growth parameters like maximum number of flowers (17.97) and fruits (11.8) per square meter, fruit set (65.57%) and yield parameters like weight of fruit (243.80 g), yield per tree (58.1 kg) and yield per hectare (23.26 tonnes).

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