

Effect of integrated nutrient management on growth and yield of African marigold (*Tagetes erecta* L.) cv. 'LOCAL' under middle Gujarat agro-climatic conditions

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ABSTRACT

The experiment was conducted at College Horticulture Nursery, Department of Horticulture, B.A. College of Agriculture, Anand Agricultural University, Anand during June, 2009 to November, 2009. The treatments comprised of three biofertilizers (*Azotobacter*, *Azospirillum* and PSB) three levels of vermicompost (2.0, 3.0 and 4.0 t ha⁻¹) and three levels of NPK (60, 70 and 80 % of RDF) including control (RDF). The experiment was laid out in a Randomized Block Design with ten treatments replicated thrice. The results revealed that application of 70% RDF + 3 t/ha vermicompost + *Azotobacter* + *Azospirillum* + PSB (T₇) produced significantly maximum plant height, number of branches per plant, plant spread in N-S and E-W directions, average flower weight, number of flowers per plant, flower yield per plant (g) and flower yield per hectare (t) as compared to control.

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