RESEARCH ARTICLE

EFFECT OF BIOFERTILIZER, MANURES AND CHEMICAL FERTILIZERS ON GROWTH AND YIELD OF GUAVA (*PSIDIUM GUAJAVA* L.) CV. ALLAHABAD SAFEDA

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Abstract: The research experiment was carried out on "Effect of biofertilizer, manures and chemical fertilizer on growth and yield of guava (*Psidium guajava* L.) cv. Allahabad Safeda" at Horticultural Research Farm, Department of Horticulture, B. A. College of Agriculture, Anand Agricultural University, Anand during the year 2018. The experiment was laid out in Completely Randomized Designwith 09 treatments. The soil of the experimental site was loamy sand. The soil application of full dose of biofertilizer manures and chemical fertilizers were given as basal dose in last week of June and remaining half dose of chemical fertilizer given in first week of September.Among all the treatments, the soil application of 30 % RDF through chemical fertilizers + 30 % RDN through Poultry manure + 20 ml Bio NPK Consortium per tree treatment was most effective treatment and which was recorded significantly maximum incremental plant spread [N-S] (92.10 cm), incremental plant spread [E-W] (85.11 cm) and C grade fruit yield (4.92 Kg/tree). Whereas, the soil application of40 % RDF through chemical fertilizers + 40 % RDN through Poultry manure + 10 ml Bio NPK Consortium per tree treatment was recorded significantly maximum fruit weight (217.22 g), fruit volume (197.40 cc), total number of fruits per tree (171.33), A grade fruit yield (20.86 Kg/tree), B grade fruit yield (18.84 Kg/tree), total fruit yield (43.72 Kg/tree) and total fruit yield (12.11 tones/ha)

Keywords: Biofertilizer, Growth, Guava, Poultry manure, Yield

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