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RESEARCH PAPER

Studies on the effect of pre-harvest application of plant growth regulators and chemicals on yield and quality of guava (*Psidium guajava* L.) cv. L.-49

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Abstract : A field experiment to study the effect of pre-harvest application of plant growth regulators and chemicals namely giberellic acid, naphthalene acetic acid, calcium chloride, zinc sulphate, potassium sulphate and control on yield and post harvest quality of guava (*Psidium guajava* L. cv. L.-49) was conducted at the Department of Horticulture, Agricultural College and Research Institute, Tamil Nadu Agricultural University, Killikulam during the year 2012. The experiment was laid out with six treatments replicated three times in a Randomized Block Design. In the present investigation, application of potassium sulphate (1 %) significantly enhanced the yield parameters viz., fruit length (9.0 cm), number of fruits (145.1), fruit weight (138.3 g) and yield per tree (20.06 kg) and quality parameters viz., TSS (9.5 %), acidity (0.25 %), total sugars (9.25 %), reducing sugars (4.76 %) and ascorbic acid (130 mg/100g pulp).

Key Words : Pre-harvest application, Growth regulators, Yield, Quality, Guava

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