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RESEARCH PAPER

Effect of various plant growth regulators on yield and quality of guava (*Psidium guajava* L.) cv. LUCKNOW-49

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Abstract : The present investigation was carried out to determine the suitable and optimum concentration of boron and plant growth regulators for maximum productivity and quality of guava cv. LUCKNOW-49 during *Kharif* season. From the present study it can be concluded that the treatment T_{10} (0.2% boron + GA_3 60 ppm+ NAA 150 ppm + ethrel 750 ppm) was found best for physical parameters and treatment T_5 (0.2% boron + NAA 150 ppm) for yield point of view, while for quality point of view the treatment T_9 (0.2% boron + ethrel 1000 ppm) was found best. As far as the relative economics of the treatment is concerned, the maximum net realization of Rs. 1,72,807 per hectare with highest 1:6.6 cost benefit ratio (CBR) was obtained by the treatment T_5 (0.2% boron + NAA 150 ppm) as compared to other treatments. Therefore, the treatment T_5 (0.2% boron + NAA 150 ppm) is best among all treatment for higher production.

Key Words : Guava (*Psidium guajava* L.), Boron, NAA, Ethrel yield, Quality

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