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Response of guava to boron and growth regulators spray

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ABSTRACT : The effect of foliar spray of salicylic acid (SA) and boron along with traditional growth regulators like GA_3, NAA and ethephon on growth, flowering and yield of guava variety Arka Amulya was investigated. Salicylic acid 100ppm recorded maximum increase in shoot length, number of leaves and leaf area over control. The minimum day for initiation of flowering (24.33) was taken by ethephon 100 ppm spray followed by SA 200 ppm (25.33). Concerning the effect of chemicals on number of fruits per shoot and fruit set per cent, maximum numbers of fruit (3.18) per shoot and fruit set per cent (74.16) were registered in S A 100 ppm which was statistically comparable to NAA 20 ppm. However, minimum fruit set percentage (35.57) was recorded in control. GA_3 50ppm and ethephon 100 ppm increased fruit length and fruit breadth, respectively over other treatments. Maximum yield (12 .30 kg) per plant was registered under treatment SA (100ppm) which found statistically comparable to NAA 20 ppm. The highest TSS and vitamin C content were registered under 20 ppm and boron 200 ppm, respectively. While, the highest B: C ratio (11.18) was recorded from the plant treated with SA 100 ppm.

KEY WORDS : Plant growth regulators, Growth, Yield, Guava

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