



Effect of Micronutrients Application on Growth, Yield and Quality of Guava (*Psidium guajava* L.)

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Abstract: The study was conducted to evaluate the effects of foliar application of micronutrients (zinc sulphate, boric acid and manganese sulphate) alone and in combination on growth, yield and quality of guava cv. Hisar Safeda. The treatments were set up in randomized blocks [T1 (0.5% ZnSO₄), T2 (0.5 ZnSO₄ + 0.2% MnSO₄), T3 (0.5% ZnSO₄ + 0.3% H₃BO₃), T4 (0.3% H₃BO₃), T5 (0.3% H₃BO₃ + 0.2% MnSO₄), T6 (0.2% MnSO₄), T7 (T1 + T4 + T6), T8 (Control)] replicated three times. In general, application of zinc sulphate, boric acid and manganese sulphate alone increased in fruit set, fruit weight, fruit yield, ascorbic acid and pectin content of fruit over control, while, higher increase was evident in boric acid application. The combined foliar application of 0.2% MnSO₄ + 0.3% H₃BO₃ + 0.5% ZnSO₄ showed higher impact for increase in traits like plant height, fruit retention (72.34%), fruit weight (113.3 g), fruit yield (72.03 kg/tree), ascorbic acid (191.8 mg/100g) and pectin content (0.76%) as compared to control as well as their application alone.

Keywords: Ascorbic acid, Boric acid, Micronutrients, Pectin content, Yield
