



Effect of foliar spray of micronutrients on growth, yield and quality of guava (*Psidium guajava* L.) cv. DHARIDAR

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Abstract : A field experiment was conducted at Instructional cum Research Fruit Orchard, Department of Fruit Science, College of Horticulture, Mandasaur Madhya Pradesh, to study the effect of micronutrients on growth, yield and quality of guava. Foliar application of zinc sulphate @ 0.75%, significantly increased the shoot length (13.44 cm), leaves per shoot (11.65), shoot diameter (0.52 cm), leaf area (71.60 cm²), fruit length (7.06 cm), fruit width (7.09 cm), number of fruit /plant (164.80), fruit weight (187.18 g), yield per plant (30.90 kg), yield per hectare (85.89 q/h) and all the physico chemical parameters of guava fruits over to other levels of zinc sulphate and control, followed by ZnSo₄ @ 0.50%. Magnesium sulphate at 0.75% shows significantly increased the shoot length (12.95 cm), leaves per shoot (11.48), shoot diameter (0.50cm), leaf area (70.81 cm²), fruit length (6.96 cm), fruit width (6.93 cm), fruit volume (175.05 ml), specific gravity (1.040), pulp (96.91%), pulp : seed ratio (32.09), TSS (11.04 °Brix), acidity (0.65%), ascorbic acid (158.24 mg/100g), TSS : acid ratio (16.73), pectin content (0.84%), reducing sugar (3.45%), non reducing sugar(3.45), Total sugar (6.90%), minimum seed (3.09%) and all the yield attributing parameters of guava as over to other level of magnesium sulphate and control. However, magnisium sulphate at 0.50% showed the non significant effects for most of the physico chemical and yield attributing parameters of guava fruits. The combined spray of zinc sulphate @ 0.75% and magnesium sulphate @ 0.75% prove the best for the most of the physico chemical and yield parameters of guava fruits, followed by zinc sulphate @ 0.75% and magnesium sulphate @ 1.0%.

Key Words : Zinc sulphate, Magnesium sulphate, Growth, Yield, Quality, Guava

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