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Research Article

Effect of different doses of nitrogen, phosphorus and potash application on physico-chemical characteristics of guava (*Psidium guajava* L.) cv. ALLAHABAD SAFEDA

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SUMMARY

The present experiment entitled effect of different doses of nitrogen, phosphorus and potash application on physico-chemical characteristics of Guava (*Psidium guajava* L.) cultivar Allahabad Safeda was conducted on 12 year old guava trees at Research Orchard/Farm, Department of Horticulture, Allahabad Agricultural Institute-Deemed University Allahabad. The NPK were applied in the form of ammonium sulphate, single supper phosphate and muriate of potash. Experiment was laid out in a randomized block design with four treatments consisting of T_0 -control (no. application of A.S, S.S.P and MOP), T_1 (A.S: S.S.P: MOP @ 860:440:440 g/tree), T_2 (A.S: S.S.P: MOP @ 720:360:360 g/tree) and T_3 (A.S: S.S.P: MOP @ 600:280:280 g/tree). The maximum fruit length (6.4cm), diameter (6.98cm), weight (173.36g), volume (160.0ml), specific gravity (1.085), TSS (12.0%), total sugar (9.20%) and ascorbic acid (206.08 mg/100ml juice) was recorded with treatment T_1 (A.S:S.S.P: MOP @ 860:440:440 g/tree, as far as acidity of guava is concerned, the treatment T0 (Control- no application of NPK) recorded maximum acidity (1.77%).

Key Words : Guava, NPK, Physico-chemical characteristics

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an important future fruit due to its high medicinal, nutritional value, high productivity per unit area and suitability even in waste lands. However, the fruit shows great potentiality for processing into quality products, which have great in demand in national and international markets. The guava orchard selected for investigation produced fruit of inferior quality in winter season with respect to physico-chemical characteristics of fruits due to poor nutrition. Keeping this in view, the present experiment entitled effect of different doses of nitrogen, phosphorus and potash application on physico-chemical characteristics of guava (*Psidium guajava* L.) cultivar Allahabad Safeda was carried out at Research Orchard/Farm, Department of Horticulture Allahabad Agricultural Institute-Deemed University Allahabad to ascertain the treatment, which improve the quality of winter season guava.

MATERIALS AND METHODS

The experiment entitled effect of different doses of nitrogen, phosphorus and potash application on physico-