



Research Paper

Article history :

Received : 08.10.2013

Revised : 29.03.2014

Accepted : 12.04.2014

Effect of integrated nutrient management on plant growth, fruit yield and quality of phalsa (*Grewia subinaequalis* D.C.)

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ABSTRACT : Field experiment was carried out to ascertain the effect of integrated nutrient management on plant growth, fruit yield and quality of phalsa. Eleven treatment combinations of nutrient resources were tested on phalsa var. Sharbati. The maximum plant growth and fruit yield (5.06 kg per plant and 5.23 kg per plant) in both the year, respectively was obtained with treatment T₆ closely followed by treatment T₇. The physical character of fruits viz., fruit length (1.13 and 1.15 cm), fruit breadth (1.37 and 1.35 cm), weight of fifty fruits (38.63 and 39.10g) and juice per cent (51.11 and 51.92%) and pulp/stone ratio (1.60 and 1.62) were recorded maximum with treatment T₆ during both the years, respectively. Chemical character of fruit viz., TSS (27.64 and 27.91%), reducing sugars (19.38 and 19.40%), non reducing sugars (2.37 and 2.38%) and total sugars (21.74 and 21.78) were obtained with treatment T₆ during both the years, respectively. The minimum acidity (2.24 and 2.20%) and maximum ascorbic acid (38.51 and 38.21 mg/100 ml juice) was also obtained with treatment T₆ during both the years respectively. On the basis of performance treatment T₆ FYM +75 per cent NPK+ *Azotobacter*+ PSB+ ZnSO₄(0.4%) may be applied for better growth, yield, quality and sustainability of phalsa crops.

KEY WORDS : Phalsa, Bio-fertilizers, Nutrients, Micronutrients

HOW TO CITE THIS ARTICLE : Verma, Ravi Shankar, Singh, H.K. and Verma, Shiv Shankar (2014). Effect of integrated nutrient management on plant growth, fruit yield and quality of phalsa (*Grewia subinaequalis* D.C.). *Asian J. Hort.*, 9(1) : 48-52.