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Effect of inorganic fertilizers on the plant growth and fruit quality in phalsa (*Grewia asiatica* D.C.)

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ABSTRACT : Phalsa plant requires adequate nutrition for proper growth and development. Fulfilling tree nutrition requirements is important for economically profitable fruit production. The optimized standards of fertilizer application are of great importance to get good yield. The present study was undertaken to find out the best possible combination of the inorganic fertilizers which can stimulate production in phalsa plants. A field experiment was laid out in Randomized Block Design with nine treatments and three replications at Khalsa College Orchard, Amritsar during 2009-10. The treatment 200g N + 50g P + 75g K per plant proved to be the best treatment resulting in maximum shoot size, internodal length and also having highest contents of reducing and total sugars. Maximum fruit size and fruit weight were recorded in plants applied with 200g N + 75g P + 100g K per plant. Maximum TSS: acid ratio was recorded in plants fertilized with 200g N + 75g P + 75g K.

KEY WORDS : Phalsa, Inorganic fertilizers, Plant growth, Fruit quality, Shoot size

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