Nitrogen management in guava (*Psidium guajava* L) cv. LUCKNOW-49 through fertigation under North Gujarat conditions

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ABSTRACT

Various fertigation treatments were applied to study their effect on the growth, yield and economic parameters of guava. The four years pooled data revealed that number of fruits and fruit yield of guava were significantly highest with treatments F1L3 (60% recommended dose of nitrogen at 15 days intervals). However, F1L2 (80% recommended dose of nitrogen at 15 days intervals) was at par with that of F1L3. Fertigation with only 60% recommended dose of nitrogen at 15 days intervals was also found to be most economical and profitable fetching the highest net profit and the highest cost benefit ratio. So that, it can be concluded that farmers of North Gujarat should apply 60 per cent of the recommended dose of nitrogen at an interval of 15 days in the month of May-June and September-October. It gives 32 per cent higher fruit yield and higher net return per hectare along with 40 per cent saving of nitrogen.

Key words: Guava, Fertigation, Cost : benefit ratio