

Effects of Extraction Liquid Fertilizer Application on the Nutrients Concentration of Leaf and Fruit Yield and Quality of Sugar Apple (*Annona squamosa* L.)

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Abstract

The results analysis of sugar apple applied extraction liquid fertilizer experiment showed the leaf nitrogen concentration of 0.5%, 0.25% and 0.125% treatments were significantly higher than the control, the leaf phosphorus, potassium, calcium, and magnesium and iron, zinc, copper, manganese concentrations of 0.5% and 0.25% treatments were significantly higher than the control. The fruit weight, total soluble solid content and fruit yield per plant of the 0.5% extraction liquid fertilizer treated plot were 605.8g, 22.9°Brix and 19.1kg were significantly higher than the control (587.2g, 20.6°Brix and 17.7kg). The fruit weight, total soluble solid content and fruit yield per plant of 0.25% and 0.125% extraction liquid fertilizer treatments were higher than the control. According to the result of experiment, application of extraction liquid fertilizer reduced chemical fertilizer rate and increased the leaf nutrients concentration and had positive effects on the yield and quality of fruit.

Key words : Extraction liquid fertilizer, Nutrient element, Sugar apple

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