

## **EFFECT OF RETAIN ON THE ABILITY TO DELAY RIPENING OF CUSTARD APPLE LANG SON**

**Hoang Thi Le Hang, Luong Thanh Chung,  
Nguyen Thi Thu Huong, Nguyen Van Loi**

### **Summary**

This study aims at determining the effect of pre-harvest Retain treatment on the ability to delay ripening and quality of custard apple was grown in Lang Son. Experimental factors include the application time at 80, 85, 90, and 93 days from fruit formation; Retain concentrations: 0.77, 0.80, 0.83, 0.86 g/liter and solution volume: 2, 3, 4 liters/tree. Assess the biochemical and physiological indicators of custard apple at the time of collection such as: ethylene production and respiration rate, fruit size, fruit firmness, fruit colour, water, total soluble solids, sugar and starch content at the harvest time. The study has identified that pre-harvest AVG treatment at 85 - 90 days/ 0.83 g/ 1.3 liters/tree will increase yield (increase in weight 5.12%), quality (increase in sugar 12.74%) and delayed ripening by 5 to 7 days for Chi Lang custard apple.

**Keywords:** *AVG, custard apple, harvest time, pre-harvest treatment, ripening.*