Shelf Life Extension of Papaya Fruit by Shrink Wrapping

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ABSTRACT

Papaya (*Carica papaya*) is a popular and economically important fruit of tropical and subtropical countries. Papaya fruits are rich in enzymes called papain and chymopapain. Marketing of fresh papaya is a great problem because of its short post-harvest life, which leads to high post-harvest losses. The focus of this research was to study the effect of shrink wrapping on physico-chemical properties and shelf life extension of papaya. Two sets of fruits (wrapped and unwrapped) were held at ambient (32-39°C, 72-83% RH) and refrigerated conditions (10-12°C, 90-95% RH) throughout the storage period. Weight loss, pH, moisture content, TSS, vitamin C, vitamin A, proteins, carbohydrates were evaluated at an interval of 4 days. Changes in moisture content, protein, vitamin C, carbohydrates of the shrink-wrapped fruits were lower than that of un wrapped fruits during storage. Papaya fruits stored at room temperature, refrigeration, shrink wrapped and shrink wrapped papaya at refrigerated conditions had longer storage period compared to other storage conditions.

Key words: Papaya, Shrink wrapping, Vitamin C, Weight loss.