

[CP02][ABS-5]

Enhancing fruit development of durian using different methods of nutrient supplements

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Abstract

The study on fruit develop enhancement of ^Manthong^ durian was conduct at the Chanthaburi Horticultural Research Center, Thailand. The different method of nutrient supplements to decreasing losses was the main objective of this study. The combination of 20-20-20 + humid acid + carbohydrate extract was use in various technique. The direct injection at secondary branch and paste polymer gel which soaking with combined nutrient 1 and 3 pieces per branch were compared with the traditional or foliar spraying technique. It was found that fruit quality of all treatments were in the standard grade for export. However, the cost of directly injection showed the lowest, followed by 1 piece of polymer gel which about 52.4% and 48.7% compared to traditional. While, cost of 3 pieces of polymer gel per branch was higher than traditional about 19.3%. Nevertheless, pasted with polymer gel was not convenient to apply with the several steps since soaking, transporting through pasting at the branches. So, the directly injection is the alternative method with not only decreasing cost but also could enhance fruit development of directly fruiting branches to provide a good quality for exporting of durian.

Keywords: durian, fruit enhancement, injection, polymer gel, nutrient application