

Studies on the Chemical Control of Kanzawa Spider Mites¹ (*Teteranychus Kanzawai* Kishida) on Eggplant in Kao-Ping Area.

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Abstract

Eggplant is an important vegetable crop in Kao-Ping area. They are suffered from many diseases and insect pests when they planted in the fields. Among them, the Kanzawa spider mite (*Teteranychus Kanzawai* Kishida) is one of the major pests. The Kanzawa spider mite occurred year round and its peak appeared from December to January or February of the following year. For controlling this insect, farmers used to spray mixed pesticides to control it, yet it is still ineffective. Twenty-three pesticides selected from greenbook or from farmer's recommendation were used for evaluation in the laboratory. The results from the laboratory tests indicated that five pesticides, such as 7.5% Fenpropathrin + Hexythiazox (1,000x), 2% Abamectin(2,000x), 68.1% Propargite (1,000x), 2.8% Cyhalothrin(1,000x), and 5% Fenpyroximate(1,000x) were effective for controlling the Kanzawa spider mite. They were further tested in the fields at three sites. The results showed that all five insecticides, except 2.8% Cyhalothrin were effective against the Kanzawa spider mite. Pesticide residual analyses were also determined by the biochemical assay, and the results revealed that fruits of the eggplants were free from pesticide residual and safe for consumption.

Key words : Eggplant、 Chemical Control、 *Teteranychus Kanzawai* Kishida

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