

Htar Htar Naing 2014: Morphological Characterizations of Some Tetranychid Mites (Acari: Tetranychidae) of Thailand with Description of Three New Species. Doctor of Philosophy (Tropical Agriculture), Major Field: Tropical Agriculture, Department of Tropical Agriculture. Thesis Advisor: Professor Angsumarn Chandrapatya, Ph.D. 247 pages.

Twenty five species of 8 genera were described in Thailand spider mite samples. Among these, two species of *Tetranychus* and one species of *Schizotetranychus* namely They are *Tetranychus occultaspina* sp. nov on *Ipomoea aquatica* Forssk, (Convolvulaceae), *Tetranychus truncatissimus* sp. nov on *Bambusa multiplex* (Lour.) Raeusch. ex Schult (Poaceae) and *Schizotetranychus krungthepensis* sp. nov. on sugarcane (*Saccharum officinarum*L.) (Poaceae) were new to science.

*Oligonychus sacchari* McGregor, 1942 and *Schizotetranychus malayanus* Ehara, 1988 were treated as new records for Thailand. *Oligonychus Sacchari* was collected from lemongrass, *Cymbopogon citratus* (Poaceae) and *S. malayanus* from two host plants; wild grass and wild bean plant.

Guava, *Aegle marmelos* (L.) Corr. (Rutaceae) was recorded for the first time as a new host plant for *Eotetranychus celtis* Ehara, 1965. Similarly, passion fruit plant, *Passiflora foetida* (L.) Corr. (Passifloraceae) was also recorded as a new host plant for *Tetranychus marianae* McGregor, 1950.

These new findings indicated that Thailand may have more wide varieties of host plants and more diverse species of Tetranychid mites.

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