

## 2-8. Developmental Characteristics and Reproductive Behavior of the Red-striped Golden Stink Bug, *Poecilocoris lewisi* Distant (Hemiptera : Pentatomidae) Rearing in a Room

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The developmental characteristics and reproductive behavior were investigated to establish the successive rearing method of *Poecilocoris lewisi* in a room. Raw peanuts were supplied to the insect as a substitute food under high temperature, long day condition (25°C, 16L · 8D).

Egg period was 8.2 days and the total duration from egg to adult was about 48 days. 57.1% of the hatched nymphs reached to adults and the sex ratio of those was 53 : 47 (♂ : ♀).

Oviposition experiment showed that pre-oviposition period was 25.8 days and mean frequency of oviposition was 4.4 times.

The number of eggs oviposited per a clutch was mostly 14. On the other hand *P. lewisi* preferred to suck the nectar of stem or fruit of *Phellodendron amurense*, *Zanthoxylum spp.*, *Evodia danielli* and *Thuja orientalis* out of 18 plant species experimented. Also the oviposition preference showed the same tendency of host preference.

Mating of adults started on the 9th day after emergence, peaked 88.9% on the 21st day.

Mating behavior of this insect was observed as follows : Search, Approach, Antennal contact, Mount, Abdominal approach and Copulation (End-to-end position). Male made a sound during random searching by fluttering its wings or hitting its body against rearing cage. Female was most of time passive in mating. Released each a pair of virgin adults at optimum mating period in a cage, 69% of those succeeded in mating within 1hr after light-on.