

Demography of the bagworm, *Pteroma pendula* Joannis on an exotic tree, *Acacia mangium* Willd in Malaysia

ABSTRACT

Demography of *Pteroma pendula* (Lepidoptera: Psychidae) feeding on *Acacia mangium* was examined in the laboratory. The species undergoes six instars. The mean total lifespan of *P. pendula* was 44.8 ± 1.5 days, with males at 47.7 ± 1.4 days and females at 41.8 ± 1.6 days. The length of cases was significantly correlated with the larval head capsules width with $R^2=0.97$ for male and $R^2=0.92$ for female. Its short life cycle allows this species to have a minimum of eight generations yearly. Generally, its growth and developmental performances on *A. mangium* are relatively similar to those developing on oil palm. Thus *A. mangium* is a good alternate host for the pest population to build up its numbers. In addition to its invasiveness, *A. mangium* serves not only as a refugium for the pest but also as a source of infestation to agricultural crops within the vicinity.

Keyword: Bagworms; *Pteroma pendula*; Life history; *Acacia mangium*