

黃紋麗龍蝨 *Hydaticus vittatus* (Fabricius, 1775) Coleoptera : Dytiscidae 之形態與生活

吳怡欣* 何嘉浩* 楊平世**

吳怡欣 何嘉浩 楊平世 2003。黃紋麗龍蝨 *Hydaticus vittatus* (Fabricius, 1775) Coleoptera : Dytiscidae 之形態與生活。動物園學報 15:7-16。

摘要：黃紋麗龍蝨 *Hydaticus vittatus* (Fabricius, 1775) 為棲息於沼澤、湖泊或靜水流域之水生甲蟲，成蟲為肉食兼腐食性的昆蟲，主要以水中的蝦、水蟲、孑孓及蝌蚪等水中小動物或其屍體為食；在取食行為的過程中，黃紋麗龍蝨主要是依據食物的氣味來覓食，並且有集體取食的行為。黃紋麗龍蝨的卵為白色細長形；卵長約為 2 mm，寬為 0.2 mm，雌蟲產卵在水生植物的表面上；幼蟲的外型為長跳蟲型，腹節最末節長形，兩側有一列濃密的細毛，端部並有一對尾毛，幼蟲共有三齡；在化蛹前會築蛹室以供化蛹。在 $25 \pm 1^\circ\text{C}$ ，12L:12D 之恆溫條件下，卵的平均發育日數為 7.15 ± 1.56 日，幼蟲第一齡至第三齡的平均發育日數分別為 5.23 ± 1.75 日、 6.77 ± 1.58 日及 10.38 ± 2.36 日。蛹期為 14.36 ± 3.17 日。全年皆可繁殖，一年約可繁殖三代至四代。成蟲的壽命可長達一年以上，在台灣全年可見，由觀察飼育的結果可做為昆蟲館飼養展示之依據。

關鍵字：黃紋麗龍蝨，*Hydaticus vittatus*，形態，生活史，生殖行為。

*台北市立動物園動物組

**國立台灣大學昆蟲學研究所

Morphology and Life History of the Diving Beetles *Hydaticus vittatus* (Fabricius, 1775) Coleoptera : Dytiscidae

I-Hsin Wu*, Chia-Hao Ho** and Ping-Shin Yang**

Abstract : The diving beetles *Hydaticus vittatus* (Fabricius, 1775) are aquatic beetles which usually live in stagnant water and are known as the cleaners of the pond. They hunt for dragonfly nymphs, larvae of mosquito, crustaceans and tadpoles. They may also feed on dead animal bodies. Their eggs are white and are laid by female adult on water plant surface. There are three instars in the larvae stage, and the larva has long, thin, caterpillar-like body. Bred larva in a growth chambers with $25\pm 1^{\circ}\text{C}$, RH,12L:12D photoperiod, the results indicated that the duration of egg stage was 7.15 ± 1.56 days. Larva stages were 5.23 ± 1.75 days, 6.77 ± 1.58 days, 10.38 ± 2.36 days respectively. The pupal stage was 14.36 ± 3.17 days. Pupa and adult could over the winter, the elder of the stages the longer of the development time. The life of adult can more than one year and there are three or four generations in a year. The results could be suggested some information for management of rear and exhibit on insect house.

Key words: diving beetle, *Hydaticus vittatus*, morphology, life history, reproductive behavior

* Department of Animal Collection, Taipei Zoo, Taipei, Taiwan, R.O.C.

** National Taiwan University, Department & Graduate Institute of Entomology