



## Intisari

Penelitian respons fungsional itik terhadap keong mas telah dilakukan di Desa Sumbersari, Kecamatan. Moyudan, Kabupaten Sleman, DIY. Itik uji adalah itik betina dewasa umur 13 bulan dan sudah bertelur. Sementara itu keong mas yang dipakai untuk kajian berukuran panjang  $25,94 \pm 0,95$  mm dan berat  $4,58 \pm 0,38$  g. Uji pakan individu itik dimaksudkan untuk menentukan kemampuan maksimum dan respons fungsional. Hasil kajian menunjukkan bahwa itik hanya mampu memangsa keong mas berukuran kurang dari 35 mm. Kemampuan maksimum itik makan adalah aktual 12,2 ekor/18 menit dan maksimum ekspektasi menurut Holling adalah 53,43 ekor/18 menit. Respons fungsional itik terhadap keong mas mengikuti respons fungsional Holling tipe 2. Daya makan yang tinggi dan respons fungsional yang kuat membuktikan bahwa itik berpotensi sebagai agens pengendalian hayati terhadap keong mas.

Kata kunci: itik, keong mas, respons fungsional



*Abstract*

Study on feeding capability and functional response of ducks against golden snail had been done in Village of Summersari, Sub district of Moyudan, Regency of Sleman, Yogyakarta Special Territory. The tested ducks were mature female of 13 months old and had laid eggs. Meanwhile, the tested golden snails used in this study were  $25.94 \pm 0.95$  mm in length with  $4.58 \pm 0.38$  g in weight. Feeding tests of an individual duck was intended to determine maximum feeding capability and the functional response. Results showed that the ducks were only able to feed golden snail of approximately less than 35 mm in length. Actual maximum feeding capability of a duck was approximately 12.2 snails / 18 minutes. While the expected one referred to Holling formulation was 53.43 snails / 18 minutes. The functional response of a duck against golden snail fitted with type II of Holling. The high feeding capability and the strong functional response of the ducks, it proved that the duck is potential as a biological control agent against the golden snail.

Keywords: ducks, golden snail, functional response