

BIOLOGICAL STUDIES OF TWO LAND SNAIL SPECIES AT MINUFIYA GOVERNORATE

Safaa M. Abo-Taka, A. A. Osman, Rasha F. Khalifa,
Economic Entomology & Agric. Zoology Dept., Fac. of Agriculture., Menoufia Univ.
Egypt ,,,

ABSTRACT:

Some biological aspects of both *Monacha cartusiana* and *Eobania vermiculata* were studied under laboratory conditions, Life span of *M. cartusiana* was 580 ± 8.4 days compared with 921.4 ± 8.9 days for *E. vermiculata*. The incubation period lasted 19.3 ± 1.6 days and 12 days for *M. cartusiana* and *E. vermiculata*, respectively. Juvenile period of *M. cartusiana* prolonged for 112 ± 4.2 days, while this period prolonged 117.6 ± 4.5 days for *E. vermiculata*. Oviposition period was 91 ± 2 and 354.2 ± 6.04 days for *M. cartusiana* and *E. vermiculata* respectively. The effect of four temperature degrees on incubation period and hatchability of *M. cartusiana* and *E. vermiculata* were studied. The highest hatchability was recorded when snails reared on 20°C (95 and 80% for *M. cartusiana* and *E. vermiculata*). When three moisture levels were tested, the highest hatchability and the shortest incubation period recorded at 80% R.H. Rearing snails on 1 clay: 1 sand soil gave moderate incubation period (19 & 18 days) and the highest hatchability was 87.5 and 92.5% for *M. cartusiana* and *E. vermiculata*, respectively. When snails egg exposed to long light period (12 hours) no hatching was occurred, while six hours was the most suitable for hatchability (92.5 and 97.5%) and shorted the incubation period (14, 12 days) for *M. cartusiana* and *E. vermiculata*, respectively. The effect of five food types on *E. vermiculata* consumption was tested for seven days, data cleared that Lettuce leaves were the most preferable food type followed by Cabbage and Clover leaves.

Key words: : *Monacha cartusiana*, *Eobania vermiculata*, Biology, land snails.