

THE CHANGES IN POPULATION DYNAMICS  
OF *ELDANA SACCHARINA* WALKER IN  
RELATION TO ENVIRONMENTAL FACTORS  
IN EGYPT

BY

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ABSTRACT

This work dealing with the stalk borer. *Eldana saccharina*  
Walk., divided into two main sections.

## Section I- Biological studies

In this section, three points were studied in details:

- a- The effect of different kinds of food and temperature on the biology of the insect.
- b- Assessment of threshold (zero) of development for the different stages.
- c- Life table studies of the insect on different host plants.

## Section II- Ecological studies

In this section, three points were highlighted in details:

- a- Monitoring of moth population by using light trap  
(Population fluctuations of moths, estimated number of field generations, and effect of main weather factors on the population fluctuations of moths).
- b- Host preference of four stalk borers on different graminaceous hosts.
- c- The assessment of losses in maize and sorghum yields due to infestation.

Key word: *Eldana saccharina* Walker., - Biological studies -

Different hosts - Temperatures - Threshold - Ecological studies - Light trap - Population dynamics

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