

A CENTURY OF CODLING MOTH CONTROL IN SOUTH AFRICA

I. HISTORICAL PERSPECTIVE

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ABSTRACT

The various control measures used against codling moth (*Cydia pomonella* Linn.) since it was first found in South Africa around 1885 are described. Over the years continuous changes were made to adapt to new situations and technology but no final answer to the problem has been found.

INTRODUCTION

The codling moth, *Cydia pomonella* Linn. (family Olethreutidae) is a key insect pest of apple and pear tree fruit in South Africa (Myburgh *et al.*, 1973; Nel, 1983) and most of the countries where these fruits are produced (Barnes, 1991). It probably originated in Eurasia (Barnes, 1991) and was first reported in South Africa from Graaff-Reinet around 1885 where it is reputed to have arrived in apples from Madeira brought in by a visitor who stopped over on the island on the way home from Europe (Loonsbury, 1898). It rapidly spread to the fruit producing areas of Constantia, Stellenbosch, Somerset West and Wellington, despite advice given to farmers that they should avoid "returned empties" that might contain codling moth larvae (Loonsbury, 1899). An attempt was made to delay the spread of codling moth by prohibiting the transfer

and one to be reckoned with in apple and pear orchards; later its pest status also increased in apricot orchards (Stubbings & Hattlingh, 1945).

Strategies had to be developed to control codling moth. Some of them proved very effective, but even after a century of codling moth control in South Africa and elsewhere no final answer to the problem has been found. The insect dynamically adapted to overcome all control measures applied against it and today the industry is facing new challenges because the standard chemical control measures are no longer effective in many areas of South Africa and abroad. In this paper we trace the history of codling moth control in South Africa, hoping that we can learn from the experiences of the past. In a subsequent paper various modern control strategies available or potentially available for codling moth control will be discussed.

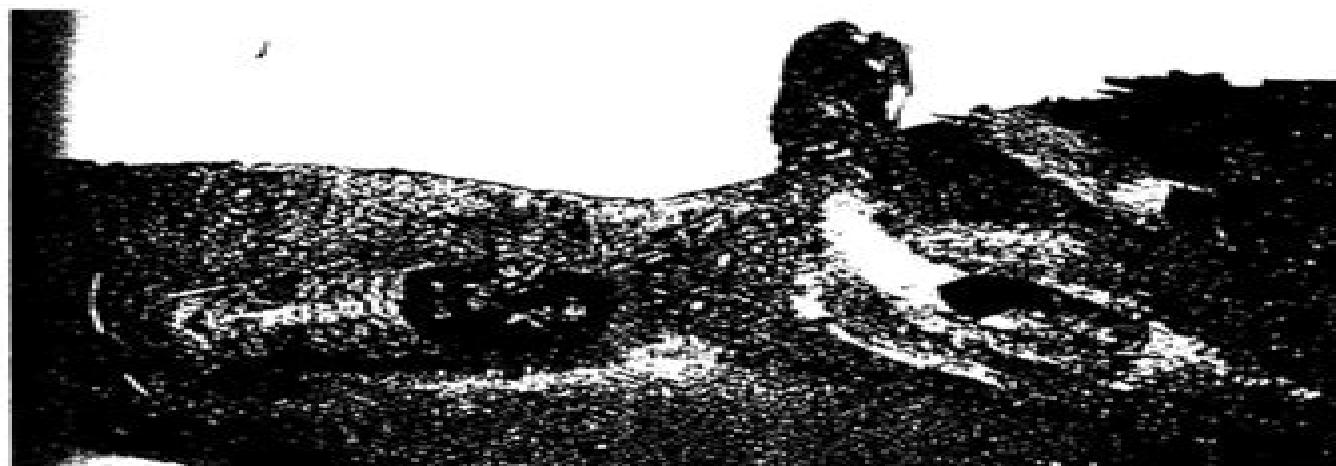


FIGURE 1. Newly emerged codling moth with empty cocoon and protruding pupal skin (Photo: Infrutec).

of apples, pears and quinces to areas where it was still absent (Loonsbury, 1907; Anon, 1912). However, by 1918 the Government entomologists recommended that the regulations be abandoned (Loonsbury, 1918). Codling moth had become an established pest

CONTROL MEASURES

Over the years entomologists in many parts of the world battled with the control of codling moth and in South Africa there was usually at least one worker studying the biology and control of this

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