

A CENTURY OF CODLING MOTH CONTROL IN SOUTH AFRICA

I. HISTORICAL PERSPECTIVE

J.H. Giliomee¹ & H. Riedl²

¹Department of Entomology and Nematology, University of Stellenbosch, Stellenbosch 7600, South Africa

²Mid-Columbia Agricultural Research and Extension Centre, Oregon State University, Hood River, Oregon 97031-9512, USA

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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 (Loansbury, 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 (Loansbury, 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.

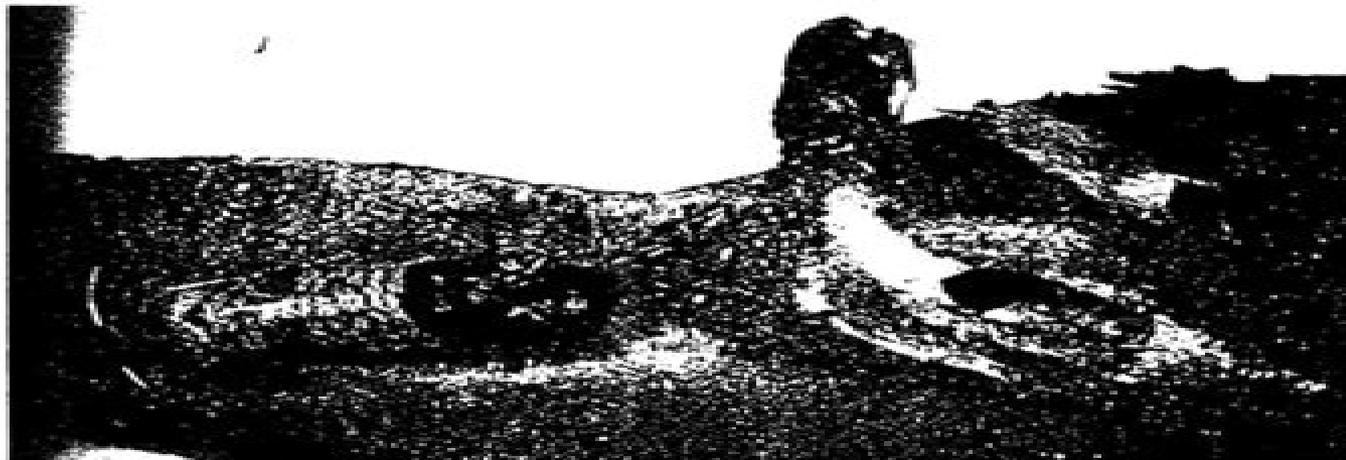


FIGURE 1. Newly emerged codling moth with empty cocoon and protruding pupal skin (Photo: Infrutec).

of apples, pears and quinces to areas where it was still absent (Loansbury, 1907; Ason, 1912). However, by 1918 the Government entomologists recommended that the regulations be abandoned (Loansbury, 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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Table of Contents Guide To Historical Codling Moth Events

1. Understanding the eBook Guide To Historical Codling Moth Events
 - The Rise of Digital Reading Guide To Historical Codling Moth Events
 - Advantages of eBooks Over Traditional Books
2. Identifying Guide To Historical Codling Moth Events
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Guide To Historical Codling Moth Events
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guide To Historical Codling Moth Events

- Personalized Recommendations
- Guide To Historical Codling Moth Events User Reviews and Ratings
- Guide To Historical Codling Moth Events and Bestseller Lists
- 5. Accessing Guide To Historical Codling Moth Events Free and Paid eBooks
 - Guide To Historical Codling Moth Events Public Domain eBooks
 - Guide To Historical Codling Moth Events eBook Subscription Services
 - Guide To Historical Codling Moth Events Budget-Friendly Options
- 6. Navigating Guide To Historical Codling Moth Events eBook Formats
 - ePub, PDF, MOBI, and More
 - Guide To Historical Codling Moth Events Compatibility with Devices
 - Guide To Historical Codling Moth Events Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guide To Historical Codling Moth Events
 - Highlighting and Note-Taking Guide To Historical Codling Moth Events
 - Interactive Elements Guide To Historical Codling Moth Events
- 8. Staying Engaged with Guide To Historical Codling Moth Events
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guide To Historical Codling Moth Events
- 9. Balancing eBooks and Physical Books Guide To Historical Codling Moth Events
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guide To Historical Codling Moth Events
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Guide To Historical Codling Moth Events
 - Setting Reading Goals Guide To Historical Codling Moth Events
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Guide To Historical Codling Moth Events

- Fact-Checking eBook Content of Guide To Historical Codling Moth Events
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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