



TOXIC AND RESIDUAL ACTIVITIES OF SELECTED INSECTICIDES AND NEEM OIL AGAINST COTTON MEALYBUG, *PHENACOCCCUS SOLENOPSIS* TINSLEY (STERNORRHYNCHA: PSEUDOCOCCIDAE) UNDER LABORATORY AND FIELD CONDITIONS

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ABSTRACT

Laboratory and field studies were carried out during Kharif 2009-10 and 2010-11 to evaluate the efficacy of Commando (97% DF), Confidor (20% SL), Lannate (40% SP), Actara (25 WG) at field recommended doses and neem oil at 1.5 and 2.0% concentrations against cotton mealybug, *Phenacoccus solenopsis* on cotton. Under laboratory environment Commando at recommended dose resulted into 95.2% mortality of the 2nd instar nymphs of *P. solenopsis* 72 hours after exposure period. Commando, under laboratory and field conditions, was found not only more toxic but also persisted longer in its efficacy than the rest of the trialed insecticides. Under field conditions, Commando caused 80.6% mortality of the mealybug that was significantly higher than that caused by Confidor (73.29%), Lannate (70.93%), Actara (74.38%) and neem oil (@ 1.5% (40.48%) and 2.0% (52.97%) concentration. Neem oil at both concentrations was less toxic than the rest of the synthetic insecticides; however, it significantly reduced the population of mealybug and remained effective up to more than 72 hours at both concentrations.

Keywords: Cotton mealybug, insecticides, neem oil, cotton, efficacy

INTRODUCTION

Cotton, (*Gossypium hirsutum* L.) plays a pivotal position in the economic development of many countries including Pakistan in terms of source of foreign exchange and employment. Cotton crop is attacked by a variety of insect pests from seedling stage to harvest. About 1326 species of insect pests and mites have been reported to attack cotton crop at various stages of crop growth around the world (Hargreaves, 1948; Manjunath, 2004). However, this crop is attacked by 145 species of insect and mite pests in Pakistan (Husque, 1994). Yield losses due to sucking insect pests are estimated around 4.6%, while chewing pests cause 19.21% loss in the yield of seed cotton (Satpute *et al.*, 1998). Apart from these, recent outbreak of mealybug in Pakistan has caused 14 percent loss to cotton crop (Anonymous, 2005). Cotton mealybug, *Phenacoccus solenopsis* Tinsley (Sternorrhyncha: Pseudococcidae) is a highly polyphagous pest of more than 52 plant families (Arif *et al.*, 2009). It was first recorded in 2005 and since then it has become a serious threat to successful cotton cultivation in all the cotton growing countries of Asia (Ben-Dov, 2004; Wang *et al.*,

2010). It not only causes direct damage to the crop by sucking cell sap from stems, branches, tender shoots, leaves and fruiting parts but also encourages the development of black sooty mould leading to significant reduction in yield. The infected plants have fewer, deformed and smaller bolls. The plants become stunted and in severe cases may die resulting in drastic yield losses. In Pakistan, a survey of cotton growing areas of Punjab showed 28.2% area having mealybug infestation above the threshold level that required control (Anonymous, 2008). The estimated yield losses in cotton due to mealybug were around 12% in 2006 and almost 40% in 2007 in the Punjab province (Kakakhel, 2007).

In recent years, interest is developing in an integrated pest management (IPM) strategy for the control of pest insects. In Pakistan, farmers mainly rely on synthetic insecticides for the management of mealybug but the control of mealybug using foliar insecticides is difficult due to mealy secretion which covers the bodies of adult females. However, the crawler stage is the most vulnerable to these chemicals. Various insecticides, like pro-fenophos, triazophos, carbaryl, thiodicarb, buprofezin and imidacloprid etc. have been recommended by various scientists for the management of

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McGraw-Hill Microcomputing Labs Timothy J. O'Leary, Timothy J. O'Leary, B. Williams, Linda I. O'Leary, 1990

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treat different immune related pathologies **Complete Book of Colleges, 2011 Edition** Princeton Review (Firm),2010-08-03 Lists more than 1 600 colleges and universities and provides information about admissions and academic programs Practical Crime Scene Processing and Investigation, Third Edition Ross M. Gardner,Donna Krouskup,2018-09-20 Every action performed by a crime scene investigator has an underlying purpose to both recover evidence and capture scene context It is imperative that crime scene investigators must understand their mandate not only as an essential function of their job but because they have the immense responsibility and duty to do so Practice Crime Scene Processing and Investigation Third Edition provides the essential tools for what crime scene investigators need to know what they need to do and how to do it As professionals any investigator s master is the truth and only the truth Professional ethics demands an absolute adherence to this mandate When investigators can effectively seek collect and preserve information and evidence from the crime scene to the justice system doing so without any agenda beyond seeking the truth not only are they carrying out the essential function and duty of their job it also increases the likelihood that the ultimate goal of true justice will be served Richly illustrated with more than 415 figures including over 300 color photographs the Third Edition of this best seller thoroughly addresses the role of the crime scene investigator in the context of Understanding the nature of physical evidence including fingerprint biological trace hair and fiber impression and other forms of evidence Assessing the scene including search considerations and dealing with chemical and bioterror hazards Crime scene photography scene sketching mapping and documentation and the role of crime scene analysis and reconstruction Bloodstain pattern analysis and discussion of the body as a crime scene Special scene considerations including fire buried bodies and entomological evidence Coverage details the importance of maintaining objectivity emphasizing that every action the crime scene investigator performs has an underlying purpose to both recover evidence and capture scene context Key features Outlines the responsibilities of the responding officer from documenting and securing the initial information to providing emergency care Includes three new chapters on light technology and crime scene processing techniques recovering fingerprints and castings Addresses emerging technology and new techniques in 3 D Laser scanning procedures in capturing a scene Provides a list of review questions at the end of each chapter Practice Crime Scene Processing and Investigation Third Edition includes practical proven methods to be used at any crime scene to ensure that evidence is preserved admissible in court and persuasive Course ancillaries including PowerPoint lecture slides and a Test Bank are available with qualified course adoption Industrial Environmental Management Tapas K. Das,2020-01-23 Provides aspiring engineers with pertinent information and technological methodologies on how best to manage industry s modern day environment concerns This book explains why industrial environmental management is important to human environmental interactions and describes what the physical economic social and technological constraints to achieving the goal of a sustainable environment are It emphasizes recent progress in life cycle sustainable design applying green engineering principles and the concept of Zero Effect Zero

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Table of Contents Selected Field Laboratory Activities Custom Version

1. Understanding the eBook Selected Field Laboratory Activities Custom Version
 - The Rise of Digital Reading Selected Field Laboratory Activities Custom Version
 - Advantages of eBooks Over Traditional Books
2. Identifying Selected Field Laboratory Activities Custom Version
 - 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 Selected Field Laboratory Activities Custom Version
 - User-Friendly Interface
4. Exploring eBook Recommendations from Selected Field Laboratory Activities Custom Version
 - Personalized Recommendations
 - Selected Field Laboratory Activities Custom Version User Reviews and Ratings
 - Selected Field Laboratory Activities Custom Version and Bestseller Lists
5. Accessing Selected Field Laboratory Activities Custom Version Free and Paid eBooks
 - Selected Field Laboratory Activities Custom Version Public Domain eBooks
 - Selected Field Laboratory Activities Custom Version eBook Subscription Services
 - Selected Field Laboratory Activities Custom Version Budget-Friendly Options
6. Navigating Selected Field Laboratory Activities Custom Version eBook Formats

- ePub, PDF, MOBI, and More
- Selected Field Laboratory Activities Custom Version Compatibility with Devices
- Selected Field Laboratory Activities Custom Version Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Selected Field Laboratory Activities Custom Version
 - Highlighting and Note-Taking Selected Field Laboratory Activities Custom Version
 - Interactive Elements Selected Field Laboratory Activities Custom Version
- 8. Staying Engaged with Selected Field Laboratory Activities Custom Version
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Selected Field Laboratory Activities Custom Version
- 9. Balancing eBooks and Physical Books Selected Field Laboratory Activities Custom Version
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Selected Field Laboratory Activities Custom Version
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Selected Field Laboratory Activities Custom Version
 - Setting Reading Goals Selected Field Laboratory Activities Custom Version
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Selected Field Laboratory Activities Custom Version
 - Fact-Checking eBook Content of Selected Field Laboratory Activities Custom Version
 - 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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