



TOXIC AND RESIDUAL ACTIVITIES OF SELECTED INSECTICIDES AND NEEM OIL AGAINST COTTON MEALYBUG, *PHENACOCCLUS 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, buproferin and imidacloprid etc. have been recommended by various scientists for the management of

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Molecular Dynamics at the Immunological Synapse Pedro Roda-Navarro, Andrés Alcover, Vincenzo Di Bartolo, 2017-03-21 The immunological synapse IS is a specialised cell cell adhesion that mediates antigen acquisition and regulates the activation of lymphocytes Initial studies of the IS showed a structure composed of stable supra molecular activation clusters SMAC organised during the interaction of helper T lymphocytes with B lymphocytes working as antigen presenting cells A central SMAC of coalesced T cell receptors TCRs and a peripheral SMAC for cell cell adhesion were observed IS with similar structure was later described during antigen acquisition by B cells and during the interaction of NK cells with target and healthy cells More recent research developed with microscopy systems that improve the spatial and temporal resolution has showed the complex molecular dynamics at the IS that governs lymphocyte activation Currently the IS is seen as a three dimensional structure where signalling networks for lymphocyte activation and endosomal and cytoskeleton machinery are polarised A view has emerged in which dynamic microclusters of signalling complexes are composed of molecular components attached to the plasma membrane and other components conveyed on sub synaptic vesicles transported to the membrane by cytoskeletal fibers and motor proteins Much information is nonetheless missing about how the dynamics of the endosomal compartment the cytoskeleton and signalling complexes are reciprocally regulated to achieve the function of lymphocytes Experimental evidence also suggests that the environment surrounding lymphocytes exposed to different antigenic challenge regulates IS assembly and functional output making an even more complex scenario still far from being completely understood Also although some signalling molecular components for lymphocyte activation have been identified and thoroughly studied the function of other molecules has not been yet uncovered or deeply characterised This research topic aims to provide the reader with the latest information about the molecular dynamics governing lymphocyte activation

These molecular dynamics dictate cell decisions Thus we expect that understanding them will provide new avenues for cell manipulation in therapies to treat different immune related pathologies

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 Defect to minimize wastes and discharges from various

manufacturing facilities Its goal is to educate engineers on how to obtain an optimum balance between environmental protections while allowing humans to maintain an acceptable quality of life Industrial Environmental Management Engineering Science and Policy covers topics such as industrial wastes life cycle sustainable design lean manufacturing international environmental regulations and the assessment and management of health and environmental risks The book also looks at the economics of manufacturing pollution prevention how eco industrial parks and process intensification will help minimize waste and the application of green manufacturing principles in order to minimize wastes and discharges from manufacturing facilities Provides end of chapter questions along with a solutions manual for adopting professors Covers a wide range of interdisciplinary areas that makes it suitable for different branches of engineering such as wastewater management and treatment pollutant sampling health risk assessment waste minimization lean manufacturing and regulatory information Shows how industrial environmental management is connected to areas like sustainable engineering sustainable manufacturing social policy and more Contains theory applications and real world problems along with their solutions Details waste recovery systems Industrial Environmental Management Engineering Science and Policy is an ideal textbook for junior and senior level students in multidisciplinary engineering fields such as chemical civil environmental and petroleum engineering It will appeal to practicing engineers seeking information about sustainable design principles and methodology

Environment Peter H. Raven, Linda R. Berg, David M. Hassenzahl, 2012-12-17 Raven's 8th edition of *Environment* offers more detailed content than the *Visualizing* text for a better understanding and integration of the core environmental systems and to view and analyze the role those systems play Shorter but still comprehensive coverage focuses on ethical decision making and key local environmental science issues requiring readers to think critically about the course material outside of the classroom Other features include brief text in the comprehensive segment extensive chapter pedagogy to help reinforce the systems approach more opportunities to think critically about the how systems intersect and fit together and new data interpretation questions at the end of each chapter

Measuring Up Arie L. Nettles, Michael T. Nettles, 2012-12-06 *Measuring Up* revisits vital issues of equity and assessment through the research efforts and insights of many of the nation's most prominent educators and assessment experts As its most urgent purpose the publication aims to sensitize readers to the unfairness and inappropriate uses of testing instruments which under optimal circumstances have the potential to benefit all students With America fervently espousing both national and state testing the differential performance by race and social class raises the specter of tests as barriers to life milestones such as promotion graduation and college admissions In response to such punitive testing the papers included here explore a host of models and practices that are currently being piloted both in America and abroad as educators grapple with the effects the assessment is having on minority and disadvantaged students and school systems In the process outcomes of innovative portfolio and authentic assessments are weighed against important standards and principles of validity and consequences As the various authors

probe the gap between African American and White test scores they raise important questions of resources family background and educational opportunity Beyond their value of their recommendations to educators their papers help to identify causes of pupil deficiencies in ways that can be addressed by policymakers To reinforce the emphasis on equity several authors present a definitive defense of affirmative action as a critical counter measure to the lack of fairness in school quality family and social supports and educational resources

Radioanalytical Chemistry Bernd Kahn, 2007-11-08 This work is a comprehensive and much needed tool for the teaching and practice of radioanalytical chemistry It encompasses a concise theoretical background laboratory work and data interpretation It also contains chapters on the most current and visible applications of radioanalytical techniques Its emphasis on the practical aspects on laboratory setup and operation make it a valuable tool for training professionals and students alike

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Energy Research Abstracts, 1992

Comparability of Maternal Mortality Rates in the United States and Certain Foreign Countries Alida C. Bowler, Douglas Armour Thom, Elizabeth Carpenter Tandy, Frances Catherine Rothert, Mary Ruth Colby, Ruth S. Bloodgood, 1933

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Rapid Prototyping of Application Specific Signal Processors Mark A. Richards, Anthony J. Gadiant, Geoffrey A. Frank, 1997-02-28 Rapid Prototyping of Application Specific Signal Processors presents leading edge research that focuses on design methodology infrastructure support and scalable architectures developed by the 150 million dollar DARPA United States Department of Defense RASSP Program The contributions to this edited work include an introductory overview chapter that explains the origin concepts and status of this effort The RASSP Program is a multi year DARPA Tri Service initiative intended to dramatically improve the process by which complex digital systems particularly embedded signal processors are designed manufactured upgraded and supported This program was originally driven by military applications for signal processing The requirements of military applications for real time signal processing are typically more demanding than those of commercial applications but the time gap between technology employed in advanced military prototypes and commercial products is narrowing rapidly The research on methodologies infrastructure and architectures presented in this book is applicable to commercial signal processing systems that are in design now or will be developed before the end of the decade Rapid Prototyping of Application Specific Signal Processors is a valuable reference for developers of embedded digital systems particularly systems engineers for signal processing systems such as digital TV biomedical image processing systems and telecommunications and for military contractors who are developing signal

processing systems This book will also be of interest to managers who are charged with responsibility for creating and maintaining environments and infrastructures for developing large embedded digital systems The chief value for managers will be the defining of methods and processes that reduce development time and cost *Final Report from the Select Committee on the Conditions and Prospects of the Agricultural Industry and Methods of Improving the Same* New South Wales. Parliament. Legislative Council. Select Committee on the Conditions and Prospects of the Agricultural Industry, New South Wales. Parliament. Legislative Council. Select Committee on the Conditions and Prospects of the Agricultural Industry and Methods of Improving the Same, 1922 **Genetic Engineering News** , 2006 **Annual Report of the Dept. of**

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Congressional Record United States. Congress, 1991 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

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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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