



## TOXIC AND RESIDUAL ACTIVITIES OF SELECTED INSECTICIDES AND NEEM OIL AGAINST COTTON MEALYBUG, *PHENACOCoccus 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 2<sup>nd</sup> 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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*HPI Future SOC Lab* Meinel, Christoph, Polze, Andreas, Oswald, Gerhard, Strotmann, Rolf, Seibold, Ulrich, Schulzki, Bernard, 2015-06-03 The HPI Future SOC Lab is a cooperation of the Hasso Plattner Institut HPI and industrial partners Its mission is to enable and promote exchange and interaction between the research community and the industrial partners The HPI Future SOC Lab provides researchers with free of charge access to a complete infrastructure of state of the art hard and software This infrastructure includes components which might be too expensive for an ordinary research environment such as servers with up to 64 cores The offerings address researchers particularly from but not limited to the areas of computer science and business information systems Main areas of research include cloud computing parallelization and In Memory technologies This technical report presents results of research projects executed in 2013 Selected projects have presented their results on April 10th and September 24th 2013 at the Future SOC Lab Day events **Selected Materials on**

**Federal-State Cooperation in the Atomic Energy Field** United States. Congress. Joint Committee on Atomic Energy, 1959

Tech Tinkerer ICSE AI, Robotics, and Coding Class 6 Computer Book (Edition 2) with ICT Fundamentals for Academic Year 2025-26 | Lab Activities | Block Coding | PictoBlox AI | Robotics | HTML Pankaj Kumar Verma, Dhrupal R Shah, Khushbu Chauhan, Devi M, 2024-11-01 COMPREHENSIVE ICT FOUNDATION Our ICT book for class 6 students will help them gain a thorough understanding of computer systems data representation and file management As a result providing a solid ICT foundation necessary for today s digital world INTRODUCTION TO CODING The ICT ICSE textbook class 6 introduces students to coding emphasizing the practical application of PictoBlox ensuring they grasp essential concepts and develop an interactive learning experience ALGORITHMIC PROFICIENCY Students will delve into the core principles of algorithms and block coding You will use flowcharts and pseudocode which are critical for problem solving and logical thinking UNDERSTANDING OF VARIABLES AND CONTROL STRUCTURES By exploring variables and control structures students will learn to manipulate and understand naming conventions types and operations which are fundamental in programming PRACTICALS WITH ROBOTICS AND AI APPLICATIONS The ICSE class 6 AI curriculum covers an introduction to robotics and artificial intelligence allowing students to engage with current technologies and understand their real world applications such as face detection Students will have hands on experience with 25 lab activities and 25 classroom learnings Table of Contents 1 Basics of ICT Discover the core components of a computer understand CPUs the basics of programming language data storage and transfer 2 Introduction to Coding Grasp the concept of coding and its applications and familiarise yourself with the PictoBlox interface and block palettes 3 Variables with Block Coding Dive into the world of variables understanding their naming conventions types and operations in PictoBlox 4 Control with Conditions Explore conditional programming understanding relational and logical operators and nested conditional statements 5 Basics of MS Word Master the interface and foundational tools of MS Word including text formatting and mail merge 6 Basics of Microsoft PowerPoint Grasp the

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Microsoft Project 2007: The Missing Manual Bonnie Biafore, 2007-08-17 Schedules budgets communications resources Projects big and small include them all and Microsoft Project 2007 can help you control these variables not be controlled by them But Project is complex software and learning it is well a project in itself Get up to speed fast with Microsoft Project 2007 The Missing Manual Written by project management expert Bonnie Biafore this book teaches you how to do everything from setting budgets and tracking schedules to testing scenarios and recognizing trouble spots before your project breaks down Find out what's new in Project 2007 from previous versions and get help choosing the right edition whether it's Project Standard Project Professional or Enterprise Project Management Solution With Microsoft Project 2007 The Missing Manual you get more than a simple software how to You also get a rundown on project management basics and plenty of solid advice on how to use Project to Define your project and plan your approach Estimate your project set up a budget define tasks and break the work into manageable chunks Create a schedule define the sequence of work and learn the right way to use date constraints and deadlines Build a project team and assign resources to tasks who does what Refine the project to satisfy objectives by building reality into the schedule and learn to keep project costs under control Track progress and communicate with team members via reports information sharing and meetings that work Close out your project and take away valuable lessons for the future Microsoft Project 2007 is the flagship of all project management programs and this Missing Manual is the book that should have been in the box No project manager should be without it 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.

**Microsoft Azure Lab Practical Book** Manish Soni, 2024-11-13. Welcome to the Microsoft Azure Laboratory Book. This comprehensive guide is crafted to provide a hands on learning experience for all levels of IT professionals and students keen to master Microsoft Azure. Through detailed step by step instructions this book will guide you through a series of practical exercises and labs aimed at building your understanding and skills in implementing Azure solutions. The focus of this book is not only to explain theoretical concepts but also to engage you actively in implementing what you learn. Each chapter introduces a different Azure topic starting with the simplest operations and moving to more complex configurations and deployments. The lab exercises are designed to give you real world experience simulating scenarios you might encounter in your professional life.

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**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 70-698 *Installing and Configuring Windows 10 Lab Manual* Microsoft Official Academic Course, 2016-12-27 This is the Lab Manual to accompany 70 698 Installing the optional MOAC Labs Online facilitate hands on labs from any location locally or remotely Available as an ebook with optional MOAC Labs Online or Lab Manual **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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environmental science for non science majors which emphasizes critical thinking environmental responsibility and global awareness This book is intended for use in a one or two semester course in environmental science human ecology or environmental studies at the college or advanced placement high school level We have updated data throughout the chapters in this book Information and examples presented are the most recent available as of the mid 2009 You will find an abundance of specific numbers and current events details that are difficult to keep up to date in a textbook The goal of this book is to provide an up to date introductory global view of essential themes in environmental science along with emphasis on details and case studies that will help students process and retain the general principles Because most students who will use this book are freshman or sophomore non science majors the authors make the text readable and accessible without technical jargon or a presumption of prior science background

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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

**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



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