



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, buprofezin and imidacloprid etc. have been recommended by various scientists for the management of

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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 **Isotopes and Radiation Technology** ,1964 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

Environmental Science: A Global Concern

William Cunningham, Mary Ann Cunningham, 2009-09-18 Environmental Science A Global Concern Eleventh Edition is a comprehensive presentation of 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

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 **Lab on the Web** Tor A. Fjeldly,Michael S. Shur,2003-09-25 Together with the internet site this book is ideally suited for independent and remote study Web site is kept to date and guest educational institutions are invited to join in creating their own lab modules on different device aspects First such program Reputation of the authors who are leaders in the field of semiconductor electronics **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 **PART 3 OF HEARINGS BEFORE THE HOUSE SELECT COMMITTEE ON LOBBYING ACTIVITIES HOUSE OF REPRESENTATIVES** FRANK BUCHANAN,1950 **Energy Research Abstracts** ,1992 **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

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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 M-Health Innovations for Patient-Centered Care Moutzoglou, Anastasius, 2016-01-26 The integration of mobile technology into the medical industry has revolutionized the efficiency and delivery of healthcare services Once limited by distance and physical barriers health professionals can now reach patients and other practitioners with ease M Health Innovations for Patient Centered Care is a pivotal reference source for the latest scholarly research on the incorporation of mobile telecommunication devices in the health field and how this technology has increased overall quality of care Highlighting various types of available technologies necessary support infrastructures and alterations in business models this publication is ideally designed for medical professionals upper level students and e health system designers interested in the effects of mobile technology on healthcare delivery *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 **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 **The Azure IoT Handbook** Dan Clark, 2023-12-22 The essential guide to architecting Azure IoT systems from provisioning and monitoring IoT sensors to analyzing real time streaming data Key Features Develop a complete IoT system in Azure with the help of hands on examples Discover how to create secure and manage an enterprise wide IoT system Learn how to collect analyze and visualize streaming data Purchase of the print or Kindle book includes a free PDF eBook Book Description With the rise of cloud based computing deploying IoT systems has become more cost effective for businesses This transformation has led to developers and architects shouldering the responsibility of creating managing and securing these systems even if they are new to the IoT technology The Azure IoT Handbook is a comprehensive introduction to quickly bring you up to speed in this rapidly evolving landscape Starting with the basic

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