



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 (Husgo, 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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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 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

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Rebecca J. Pardee,National Institute of Standards and Technology (U.S.),1989 *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 *Comparability of Maternal Mortality Rates in the United States and Certain Foreign*

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Annual Report of the Dept. of Weights and Measures New Jersey. Dept. of Law and Public Safety. Division of Weights and Measures,1929 **Selected Materials on Federal-State Cooperation in the Atomic Energy Field** United States. Congress. Joint Committee on Atomic Energy,1959 *Emerging Technologies to Promote and Evaluate Physical Activity* Dan J Graham,James Aaron Hipp,Simon Marshall,Jacqueline Kerr,2014-10-23 Increasingly efforts to promote and measure physical activity are achieving greater precision greater ease of use and or greater scope by incorporating emerging technologies This is significant for physical activity promotion because more precise measurement will allow investigators to better understand where when and how physical activity is and is not occurring thus enabling more effective targeting of particular behavior settings Emerging technologies associated with the measurement and evaluation of physical activity are noteworthy because 1 Their ease of use and transferability can greatly increase external validity of measures and findings 2

Technologies can significantly increase the ability to analyze patterns 3 They can improve the ongoing systematic collection and analysis of public health surveillance due to real time capabilities associated with many emerging technologies 4 There is a need for research and papers about the cyberinfrastructure required to cope with big data multiple streams processing aggregation visualization etc and 5 Increasingly blurred boundaries between measurement and intervention activity e g the quantified self self tracking movement may necessitate a reevaluation of the conventional scientific model for designing and evaluating these sorts of studies There have been many recent disparate advances related to this topic Advances such as crowdsourcing allow for input from large diverse audiences that can help to identify and improve infrastructure for activity e g large group identification of environmental features that are conducive or inhibiting to physical activity on a national and even global scale Technologies such as Global Positioning Systems GPS and accelerometry are now available in many mobile phones and can be used for identifying and promoting activity and also understanding naturalistically occurring activity SenseCam and other personal visual devices and mobile apps provide person point of view context to physical activity lifestyle and timing Further multiple sensor systems are enabling better identification of types of activities like stair climbing and jumping that could not previously be identified readily using objective measures like pedometers or accelerometers in isolation The ability of activity sensors to send data to remote servers allows for the incorporation of online technology e g employing an online social network as a source of inspiration or accountability to achieve physical activity goals and websites such as Stickk com enable individuals to make public contracts visible to other users and also incorporates financial incentives and disincentives in order to promote behaviors including physical activity In addition the increasing use of active gaming e g Wii XBox Kinect in homes schools and other venues further underscores the growing link between technology and physical activity Improvements in mathematical models and computer algorithms also allow greater capacity for classifying and evaluating physical activity improving consistency across research studies Emerging technologies in the promotion and evaluation of physical activity is a significant area of interest because of its ability to greatly increase the amount and quality of global recorded measurements of PA patterns and its potential to more effectively promote PA Emerging technologies related to physical activity build on our own and others interdisciplinary collaborations in employing technology to address public health challenges This research area is innovative in that it uses emerging resources including social media crowdsourcing and online gaming to better understand patterns of physical activity

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