CHEMICALS EVALUATION OF SELECTED INSECTICIDES AGAINST THRIPS (Scirtothrip dorsalis) ON CHILLI

MUHAMMAD AMIR SHAHMI BIN ZOMRI

Final Year Project Report
Submitted In Partial Fulfillment of the Requirement for the
Degree of Bachelor of Science (Hons.) Plantation Technology and Management
in the Faculty of Plantation and Agrotechnology,
Universiti Teknologi Mara

JULY 2015

DECLARATION

This final year project is a partial fulfillment of the requirements of a degree of Bachelor of Science(Hons) Plantation Technology and Management, Faculty of Plantation and Agro technology, Universiti Teknologi MARA, Kampus Jasin.

It is entirely my own work and has not been submitted to any other University or higher education institution, or for any other academic award in the University. Where use has been made of the work of other people it has been fully acknowledged and fully referenced.

I hereby assign all and every right in the copyright to this Work to the Universiti Teknologi MARA(UiTM), which henceforth shall be the owner of the copyright in this Work and that, any reproduction or use in any form or by any means whatsoever is prohibited without a written consent of UiTM.

Candidate's signature	:
Date	:
Name	:

I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Science(Hons) Plantation Technology and Management, Faculty of Plantation and Agro technology, University Teknologi MARA, Kampus Jasin.

Signature	Mannagar
Name of supervisor	. DR. MOHO RASDI ZAINI
Position	. TIMBALAN DEKAN (HEP)
Date	. 14/9/2015

TABLE OF CONTENTS

DECLARATION ACKNOWLEDGEMENTS TABLE OF CONTENTS LIST OF PLATES LIST OF FIGURES LIST OF TABLES LIST OF ABBREVIATIONS ABSTRACT ABSTRAK			Page iii iv v vii viii ix x xi
	PTER		
1		RODUCTION	1
	1.1	Background of study	1
	1.2 1.3	Problem statement	2 2 3 3 3
	1.3	Objectives Research questions	2
	1.5	Research questions Hypothesis statement	3
	1.6	Significance of study	3
	1.0	Significance of study	3
2	LITI	ERATURE REVIEW	
	2.1	Capsicum annuum	4
	2.2	Scirtothrips dorsalis	
		2.2.1 Host range	5
		2.2.2 Nature of damage	6
		2.2.3 Distribution	7
		2.2.4 Life history	
	2.3	Insecticides	
		2.3.1 Imidacloprid	
		2.2.1.1 Range	10
		2.2.1.2 Environmental effects	11
		2.2.2 Dinotefuran	10
		2.2.2.1 Range	12
		2.2.2.2 Environmental effects	12
3	МАТ	TERIALS AND METHODS	
J	3.1	Experimental site	
		3.2.1 Preparation of seedlings	13
		3.2.2 Transplant	14
		3.2.3 Maintenance	14
	3.3	Experimental design	15
	3.4	Application of treatments	16
	3.5	Data collection	16

4	RESULT			
	4.1(a)	The population number of thrips at different days treated with selected chemicals on chili crop.	17	
	4.1(A)	The result first apply treatment of population thrips	18	
	4.1(b)	The population number of thrips at different days	19	
		treated with selected chemicals on chili crop.		
	4.1(B)	The result second apply treatment of population thrips	20	
	4.2	The overall mean number of Scirtothrips dorsalis after	21	
		application of selected chemical.		
_	DICCUI	CCION	22	
5	DISCUS		22	
6	CONCL	USIONS AND RECOMMENDATION	24	
APP	ERENCES ENDIX RRICULUI		25 28 33	

16

Data analysis

3.6

ABSTRACT

CHEMICALS EVALUATION OF SELECTED INSECTICIDE AGAINST

THRIPS(Scirtothrips dorsalis) ON CHILI

The chili thrips, *Scirtothrips dorsalis*, is a significant pest of a various ornamental crops and tropical fruits. This pest becoming widely distributed in tropical, subtropical and temperate area. The experiment was conducted in order to evaluate the treatment water (control), confidor (a.i. Imidacloprid), and oshin (a.i. Dinotefuran) at their recommended field doses against sucking insect pests of thrips (*S. dorsalis*). The result showed that confidor treatment were the most effective in controlling pest *S. dorsalis* rather than oshin and water treatment. It is recommended for using confidor (Imidacloprid) in controlling thrips because confidor treatment have the lowest mean number among treatments for both application times.