

**THE DETERMINATION OF HEAVY METAL CONTENT IN SOIL
TREATED WITH HIGH DOSAGE OF FERTILIZER IN PADDY**

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DECLARATION

This Final Year Project is a partial fulfilment of the requirements for a degree of Bachelor of Science (Hons.) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

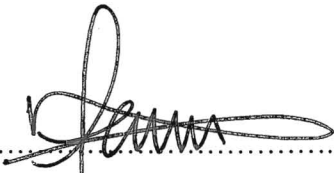
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TABLE OF CONTENTS

	<u>Page</u>
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
LIST OF FIGURES	v
LIST OF TABLES	vi
LIST OF ABBREVIATIONS	vii
ABSTRACT	viii
ABSTRAK	ix
<u>CHAPTER</u>	
1 INTRODUCTION	
1.1 Background	1
1.2 Problem statement	2
1.3 Significance of study	3
1.4 Objective of study	4
2 LITERATURE REVIEW	
2.1 Paddy	5
2.2 Clay Soil	6
2.3 Zinc	7
2.4 Copper	8
2.5 Fertilization of paddy	9-10
3 MATERIALS AND METHODS / RESEARCH METHODOLOGY	
3.1 Location of study	11
3.2 Sampling location	12
3.3 Experimental design	13
3.4 Data collection and analysis	14
3.5 Experimental procedure	15
3.6 Data analysis	15
4 RESULTS AND DISCUSSION	16-21
5 CONCLUSIONS AND RECOMMENDATIONS	22-23
CITED REFERENCES	24-26
APPENDICES	27-47
CURRICULUM VITAE	48

ABSTRACT

THE DETERMINATION OF HEAVY METAL CONTENT IN SOIL TREATED HIGH DOSAGE OF FERTILIZER IN PADDY.

This study is about research to determine heavy metal content treated with high dosage of fertilizer in soil planted with paddy. Many source of heavy metal in soil such as achieve high yield farmers used many kind of fertilizer, pesticides and fungicide. The uncontrolled dosage of fertilizer can contribute many problems such as excessive heavy metal environment problem. It's also can cause toxicity and decrease fertility. This study wants to determine whether high dosage fertilizer can be a factor of soil contamination. The objective of this study are to determine the heavy metal content in soil planted with paddy before applying fertilizer and to determine the relationship of heavy metal content after applying fertilizer. The samples were extracted for their total nutrient content by wet digestion method. As a result, for before and after Cu there are significant different ($p < 0.05$) on treatment 3 only. For before and after Zn there are significant on treatment 1 and 3. The fertilizers were applied cause the amount of heavy metal in soil change.