

**ALLELOPATHIC EFFECT OF *Cyperus iria* TOWARDS AEROBIC RICE
(MRIA 1)**

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TABLE OF CONTENTS

	Page
DECLARATION	ii
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF ABBREVIATIONS	ix
ABSTRACT	x
ABSTRAK	xi
CHAPTER 1 INTRODUCTION	1
1.1 Background of study	1
1.2 Problem Statement	2
1.3 Objectives	3
1.4 Significance of Study	3
1.5 Scope of Study	4
CHAPTER 2 LITERATURE REVIEW	5
2.1 Rice	5
2.1.1 Taxonomy	5
2.1.2 Distribution.....	5

2.2	Aerobic Rice	7
	2.2.1 History	6
	2.2.2 Distribution.....	7
	2.2.3 Benefits	7
	2.2.4 Fertilizer application	8
	2.2.5 Allelopathy of <i>Cyperus iria</i>	9
 CHAPTER 3 RESEARCH METHODOLOGY		11
3.1	Sources of Material	11
	3.1.1 Seeds	10
	3.1.2 Trough	10
3.2	Apparatus	11
3.3	Soil Preparation	14
3.4	Extract Preparation	15
3.5	Crop Husbandry and Plant Material	15
3.6	Experimental Treatment	16
3.7	Experimental Design	17
3.8	Statistical Analysis	18
3.9	Data Collection	18
	3.9.1 Weed Composition (Week 6)	18
	3.9.2 Weed Density and Weed Dry Weight (Week 6)	18
	3.9.3 Chlorophyll content (30, 45, 60 DAS)	18

ABSTRACT

ALLELOPATHIC EFFECT OF *Cyperus iria* TOWARDS AEROBIC RICE (MRIA 1)

Aerobic rice is as a staple food that consumed daily by the people. Aerobic rice was produced through crossing technique in between the traditional upland, which is drought tolerance and improved lowland, which is high yield. Glasshouse study in Randomized Complete Block Design (RCBD) was conducted at Greenhouse University Technology MARA (UiTM) Jasin. This experiment was carried out to identify and characterized weed population growth with different concentration of *Cyperus iria* and to analyze aerobic rice growth performance (plant height, number of tiller and chlorophyll content) upon application of different concentration of *Cyperus iria* which are 20gram, 30gram and 40gram. *Fimbristylis miliacea*, was found as dominant weed species in all treatments followed by *Sphenoclea zeylanica*. The highest plant height at wf30 which is 83.77cm and the lowest at wf40 which is 71.03cm. Besides that, plant heights, number of tillers and chlorophyll contents for variety MRJA 1 are not affected by different concentration of *Cyperus iria*.

Keywords: Allelopathy, *Cyperus iria*, rice, extract