

## CONTENTS

	Page
COVER	i
LEGALIZATION	iii
PREFACE	iv
CONTENTS	v
TABLE CONTENTS	vi
FIGURE CONTENTS	x
APPENDIX CONTENTS	xi
ABSTRACT	xii
INTISARI	xiii
CHAPTER I. INTRODUCTION	1
A. Background	1
B. Problems	3
C. Objectives	3
D. Usefulness	4
CHAPTER II. LITERATURE REVIEWS AND THEORITICAL FRAMEWORK	5
A. Literature Reviews	5
B. Theoritical Framework	7
1. Land Tenure	7
2. Production Theory	10
3. Cobb-Douglas Production Function	13
4. Efficiency of Production Theory	15
5. Theory of Income	17
C. Conceptual Framework	18
D. Hypothesis	20
CHAPTER III. RESEARCH METHOD	21
A. Basic Method	21
B. Kind and Source of Data	21
C. Sampling Method	22
D. Limitation of Study	22
E. Definition and Measurement of Variables	23

F. Analysis Method	24
1. Analysis Method for Knowing The Effect of land Tenure on Rice Production	24
2. Analysis Method for Knowing The Effect of land Tenure on Rice Production Efficiency	25
3. Analysis Method for Knowing The Effect of Land Tenure on Farmers' Income	26
Hyphothesis Test	28
Assumption of the Classical Model	30
CHAPTER IV. GENERAL STATE OF SLEMAN REGENCY	32
A. Geographical and Topographical State	32
1. Administrative	32
2. Altitude	33
3. Slope	33
4. Soil Texture	33
5. Climate	34
B. Land Condition	35
C. The State of Residents	38
D. Macroeconomics Condition	40
E. Agriculture Condition	41
1. Crops	42
2. Animal Husbandry	43
3. Fishery	44
CHAPTER V. CHARACTERISTICS OF FARMERS	46
A. Characteristics Of The Sample Farmers	46
1. The State of Farmers According to Age	46
2. The State of Farmers According to Education	47
3. The State of Farmers According to Occupation	48
B. Characteristics Of Farmers' Family Member	50
1. The State of Family Member According to Age	50
2. The State of Family Member According to Education	51
3. The State of Family Member According to Occupation	52
C. The State Of Farming	54

1. Arable Land Tenure Status	54
2. The Wide of Arable Land	55
3. Rice Production	56
4. The Use of Input Production	57
5. Farmers' Income	59
<b>CHAPTER VI. ANALYSIS AND DISCUSSION</b>	<b>63</b>
A. Assumption Of The Classical Model	63
Normality Test	63
1. Multicollinearity Test	63
2. Heteroscedasticity Test	64
B. Regression Analysis of Production Function	64
C. Production Efficiency	68
1. Relative Technical Efficiency	68
2. Allocative Efficiency	69
D. Productivity Analysis	71
E. Income Analysis	71
1. Rice income	72
2. Farm Income	74
3. Household Income	75
<b>CHAPTER VII. CONCLUSION AND RECOMMENDATION</b>	<b>77</b>
A. Conclusion	77
B. Recommendation	77
<b>REFERENCES</b>	<b>78</b>
<b>APPENDIX</b>	<b>81</b>

## TABLE CONTENTS

	Page
Table 4. 1. The Wide of Land Based on The Soil Texture in Sleman 2009	34
Table 4. 2. The Wide of Subdistricts Area in Sleman 2010	36
Table 4. 3. Land Utilization in Sleman 2006-2010	37
Table 4. 4. Wetland Area by Type of Irrigation and Subdistricts in Sleman 2008-2010	37
Table 4. 5. Total Area, Number of Population, and Population Density per km <sup>2</sup> by Subdistrict in Sleman 2010	38
Table 4. 6. Number of Population by Ages Group and Gender in Sleman 2010	39
Table 4. 7. The Amount of People According to Occupation Sectors and Gender 2009	40
Table 4. 8. Gross Regional Domestic Product by Origin Sectors in Sleman 2010	41
Table 4. 9. Harvested Area and Production of Crops in Sleman 2010	42
Table 4.10. Area of Damaged by Pests on Crops by Subdistrict in Sleman 2010	43
Table 4.11. Number of Livestock in Sleman 2010	44
Table 4.12. Total Area of Fishpond, Production and Productivity of Fish by Subdistrict in Sleman 2010	44
Table 5. 1. Distribution of Farmers According to Land Tenure and Age in Sleman 2011	46
Table 5. 2. Distribution of Farmers According to Land Tenure and Education in Sleman 2011	48
Table 5. 3. Distribution of Farmers According to Land Tenure and Primary Occupation in Sleman 2011	49
Table 5. 4. Distribution of Farmers According to Land Tenure and Secondary Occupation in Sleman 2011	49
Table 5. 5. Distribution of Farmers' Family Member According to Land Tenure and Age in Sleman 2011	50
Table 5. 6. Distribution of Farmers' Family Member According to Land Tenure and Education in Sleman 2011	51
Table 5. 7. Distribution of Farmers' Family Member According to Land Tenure and Primary Occupation in Sleman 2011	53



Table 5. 8.	Distribution of Farmers' Family Member According to Land Tenure and Secondary Occupation in Sleman 2011	54
Table 5. 9.	Land Tenure Status of Rice Farmers' in Sleman 2011	54
Table 5.10.	The Average of Wide Land of Farmers' in Sleman 2011	55
Table 5.11.	The Average Rice Production of Farmers' at Wet Season and First Dry Season in Sleman 2011	56
Table 5.12.	The Average Rice Production of Farmers' per Year in Sleman 2011	56
Table 5.13.	The Average of Input Used of Rice Farming in Sleman 2011	57
Table 5.14.	The Average of Labor of Rice Farming in Sleman 2011	59
Table 5.15.	Rice Income of Farmers in Sleman 2011	60
Table 5.16.	Farm Income of Farmers in Sleman 2011	61
Table 5.17.	Off Farm Income of Farmers in Sleman 2011	61
Table 5.18.	Farmers' Household Income in Sleman 2011	62
Table 6. 1	Result of Multicollinearity Test of Rice Production Factors in Sleman 2011	63
Table 6. 2.	Regression Coefficient of Rice Production Function in Sleman 2011	64
Table 6. 3.	Allocative Efficiency of Production Factors Using in Sleman 2011	69
Table 6. 4.	ANOVA Analysis Result of Rice Productivity According to Land Tenure in Sleman 2011	71
Table 6. 5.	Mean of Rice Income, Farm Income, and Household Income According to Land Tenure	72
Table 6. 6.	ANOVA Analysis Result of Rice Income of Farmers According to Land Tenure in Sleman 2011	72
Table 6. 7.	ANOVA Analysis Result of Rice Income per Hectare of Farmers According to Land Tenure in Sleman 2011	74
Table 6. 8.	ANOVA Analysis Result of Farm Income of Farmers According to Land Tenure in Sleman 2011	75
Table 6. 9.	ANOVA Analysis Result of Household Income of Farmers According to Land Tenure in Sleman 2011	75

## FIGURE CONTENTS

	Page
Figure 2.1. Neoclassical Three-Stage Production Function	12
Figure 2.2. Conceptual Framework	20

## APPENDIX CONTENTS

	Page	
Appendix 1	Regression Analysis Result	81
Appendix 2	Normality Test of Jarque-Bera Result	81
Appendix 3	Multicollinearity Test Result	82
Appendix 4	Heteroscedasticity Test of Glejser Result	82
Appendix 5	One Sample t Test of $k_i$ Result	82
Appendix 6	Rice Income Analysis Result	83
Appendix 7	Farm Income Analysis Result	83
Appendix 8	Household Income Analysis Result	84
Appendix 9	Productivity Analysis Result	84
Appendix 10	Rice Income per Hectare Analysis Result	85