

TABLE OF CONTENTS

APPROVAL	I
AUTHOR'S DECLARATION OF ORIGINALITY	III
ACKNOWLEDGEMENT	IV
TABLE OF CONTENTS.....	V
LIST OF TABLE	VIII
LIST OF FIGURE	IX
LIST OF ABBREVIATIONS.....	X
ABSTRACT.....	XI
CHAPTER 1. INTRODUCTION	1
1.1. Background	1
1.2. Research Question.....	7
1.2.1. How is the development of sustainable agriculture in the global context and particularly in Indonesia?	7
1.2.2. What policies have been promoted in Indonesia to realize sustainable agriculture?	7
1.2.3. Does organic rice farming financially advantageous to develop? ..	7
1.2.4. What are the obstacles faced by farmers and environmental benefits gained from organic rice farming?	7
1.3. Research Objective.....	7
1.3.1. To describe the development of sustainable agriculture globally and particularly in Indonesia.	7

1.3.2. To describe agricultural policies that have been promoted in Indonesia to actualize sustainable agriculture.	7
1.3.3. To analyze the financial benefit of organic rice farming.	7
1.3.4. To analyze constraints in developing organic rice farming faced by farmers and environmental benefits gained from organic rice farming.	7
1.4. Research Method.....	7
1.4.1. Research Design.....	7
1.4.2. Data Collection Techniques	8
1.4.3. Data analysis	8
CHAPTER 2. DEVELOPMENT OF SUSTAINABLE AGRICULTURE	10
2.1. Development of Sustainable Agriculture in the World	12
2.2. Sustainable Agriculture Movement in Indonesia.....	15
2.3. Organic Farming	20
2.3.1. Distribution of Organic Farmland in Indonesia.....	23
2.3.2. Trend of Organic Rice Consumption	27
CHAPTER 3. SUSTAINABLE AGRICULTURAL POLICY IN INDONESIA.....	31
3.1. Government Policy	31
3.2. Financial Support.....	42
3.3. Regulations	44
3.4. The Roles of Other Stakeholders.....	51
CHAPTER 4. ORGANIC RICE FARMING IN INDONESIA.....	55
4.1. Respondent characteristics	58

4.2.1. Age.....	58
4.2.2. Educational Level	60
4.2.3. Land Area	61
4.2.4. Reason for Implementing Organic Farming	62
4.2. Profitability of Organic Rice Farming	63
4.2.1. The Use of Farming Inputs	63
4.2.2. Yield	66
4.2.3. Comparative Analysis of Revenue Cost of Organic Rice Farming	68
4.3. Obstacles.....	69
4.4. Environmental Advantages.....	71
CHAPTER 5. DISCUSSION AND CONCLUSSION	75
5.1. Discussion	75
5.2. Conclusion	83
REFERENCE.....	86

LIST OF TABLE

Table 1. Organic Farming Area in Indonesia 2014	24
Table 2. Budget Allocation For IPM Program During 1986 - 1992	43
Table 3. Agricultural Area and non-Agricultural Area by Regency/City in Yogyakarta Special Region, 2015 (ha).....	57
Table 4. Respondents Distribution by Age in Yogyakarta Special Region.....	58
Table 5. Respondents Distribution by Educational level in Yogyakarta Special Region.....	60
Table 6. Respondents Distribution by Land Area in Yogyakarta Special Region	61
Table 7. Respondents Distribution by Reason for applying Organic Farming	62
Table 8. The Use of Fertilizers Before Compare With After Adopting Organic Farming.....	64
Table 9. Labor Requirements per Hectare before Compare with After Adopting Organic Farming System	65
Table 10. Revenue Earned by Farmers before Compare with After Adopting Organic Farming	66
Table 11. Revenue Cost Analysis of Organic Rice Farming per Hectare in Yogyakarta Special Region	68
Table 12. Average Rice Production during 2007-2017 in Yogyakarta Special Region.....	73

LIST OF FIGURE

Figure 1. Ten Biggest Markets of Organic Foods in 2014.....	4
Figure 2. Ten Largest Organic Area in 2014.....	5
Figure 3. Distribution of Organic Area by Certification Bodies 2014	24
Figure 4. Distribution of Certified Organic Area in Indonesia 2014.....	25
Figure 5. Distribution of Organic Producers in Indonesia 2014.....	26
Figure 6. The Growth of Middle Class in Indonesia 1999-2010	28
Figure 7. The Rising of Middle Class Population in Indonesia	29
Figure 8. Certification logo for organic products in Indonesia.....	39
Figure 9. Distribution Area of Organic Villages	39

LIST OF ABBREVIATIONS

ASEAN	Association of Southeast Asian Nations
BAPPENAS	Badan Perencanaan Pembangunan Nasional (National Development Planning Board)
BSB	Bina Sarana Bakti
FiBL	The Research Institute of Organic Agriculture
IAARD	Indonesian Agency for Agricultural Research and Development
ICM	Integrated Crop Management
ICS	Internal Control System
IFOAM	International Federation of Organic Agriculture Movements
IOA	The Indonesian Organic Alliance (Aliansi Organik Indonesia)
IPM	Integrated Pest Management
IRRI	International Rice Research Institute
JAKERPO	Jaringan Kerja Pertanian Organik (Organic Agriculture Network)
KAN	Komisi Akreditasi Nasional (National Accreditation Committee)
LISA	The Low-Input Sustainable Agriculture
LSO	Lembaga Sertifikasi Organik (Organic Certification Body)
OKPO	Otoritas Kompeten Pangan Organik (Organic Farming Competence Authority)
PGS	Participatory Guarantee System
SRI	System of Rice Intensification
USDA	The United States Department of Agriculture