UNIVERSITI TEKNOLOGI MARA

Programme and Abstracts

PIMES

PLANTATION MANAGEMENT EXHIBITION & SEMINAR

15th December 2018

Faculty of Plantation and Agrotechnology
Universiti Teknologi MARA
Melaka Branch, Jasin Campus
77300 Merlimau, Melaka, Malaysia

DEAN PREFACE

Assalamualaikum Warahmatulllahi Wabarakatuh

My heartiest congratulations go to the Committees for successfully organized PIMES September 2018. PiMES September 2018 enables lecturers and panels from strong industrial background to reflect and share significant ideas, experiences and research findings in the workplace and in partnerships. It is also hoped to encourage collaboration among the lecturers and enhance the quality and performance of the faculty. The research findings derived from this substantial event shall indicate the commitment of lecturers not only in teaching, but also in striving to unfold new knowledge and processes that will benefit the nation. The efforts of our lecturers need to be further extended to a wider audience so that the nation will benefit from the research findings. It is also hoped that, the proceedings will trigger serious thought and more robust research in the field of education as well as plantation and technology so as to help Malaysia achieve Vision 2020.

As we know, agriculture production has increased tremendously today because of the demand from various sectors in the world. To meet the challenges of increasing food demand, techniques and ways should be created to improve productivity, profitability and sustainability of the agricultural system. Industrial agricultural system has led to irretrievably changes in the landscape diversity, soil quality, environment integrity, and natural resource base. This has resulted major questions and curiosity worldwide in relation to the sustainability of agricultural production system. The most significant damage to natural ecosystems and the environment was caused by habitat conversion and corresponding climate change, loss of biodiversity and ecosystem functions, soil erosion and degradation, and pollution from fertilizers and pesticides. Concepts in plant protection have changed in past decades from exclusion or destruction of pest to pest management. Serious problems with pesticides, rapid development of pest resistance, environmental effects of pesticides, and high costs led to development of new approaches and techniques in pest management based on improved knowledge of pest dynamics and their natural enemies, and the interaction between the pest and the crop.

It remains only for me to thank all those who have helped to make this events such a great and wonderful success. Much appreciation is due to the board editor, and reviewers of all papers submitted as well as to all authors whose ideas and contributions ensured rich and lively discussion during the various sessions.

DEAN.
Assoc Prof Dr Asmah Awal

INTRODUCTION

The PiMES committee and UiTM (Melaka), Jasin Campus residents are very pleased to welcome all participants in the Plantation and Management Seminar (PIMES) which is organized by Faculty and Agrotechnology.

PiMES aims to give an exposure to the students about the procedure to make a poster by extracting information from their final year project. This seminar will sharpen their communication skill as well as they can exchange and share their research result, projects, experiences and new ideas related to all aspects of studies in plantation management and agribussiness, plant sciences, soil sciences, plant protection, plant biotechnology and agricultural engineering. We sincerely hope that you will enjoy and return home with plenty of inspiration to improve agro-industry plantation practices and research activities.

PLANTATION MANAGEMENT EXHIBITION AND SEMINAR 2018 (PiMES)
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ECONOMIC ANALYSIS OF PADDY PRODUCTION AMONG PADDY FARMERS AT MERLIMAU AND MUAR DISTRICT

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ABSTRACT

Rice is a nutritious staple food that contains starch (carbohydrates) which provide energy to people included Malaysian. Nowadays, the rice cultivation in Malaysia resulted high production cost and affects the profitability of farmers. The specific objectives were created to study the economic analysis of paddy production among paddy farmers. Economic analysis refers to the opportunity cost of resources employed. The main objectives of this study are to determine the economic cost and benefit among paddy farmers as well as to examine the factors affecting the profitability among paddy farmers. The factors that affect the profitability are subsidies, the role of information, distance of the mill from farm, availability of input, participation of organization and extension service. The primary data were used in this study where questionnaires were distributed to the target sample at two areas which are Merlimau, Melaka and Muar, Johor. This study included a target sample of 150 respondents of paddy farmers. The simple random sampling technique was used in this study. The data were analyzed using Cost Benefit Analysis (CBA) to examine the ratio of profitability both areas and used the Statistical Package for the Social Science (SPSS) for descriptive analysis and multiple regression analysis. The findings showed that farmers at Merlimau, Melaka has higher profitability than farmers at Muar, Johor were presented 2.5 and 2.0 ratio. Multiple regression analysis was shown that distance of the mill from the farm and availability of input has significant relationship toward the profit of farmers. Government should take initiative actions such as provide information, training and improve technologies to help farmers to increase the profit.

Keywords: Economic analysis, Paddy production, Cost and benefit, Factors affecting profitability