



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

PLANTATION MANAGEMENT EXHIBITION AND SEMINAR 2018 (PiMES)

Melaka, Malaysia

December 15, 2018

NO	CONTENTS	PAGES
1.	The Dean, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA	1
2.	Introduction PiMES	3
3.	Committees	4
4.	Schedule of PiMES	5
5.	Room Distribution For Poster Presentation	7
6.	Distribution For Poster Presentation	8
7.	Abstracts	29
8.	List Of Panels Industries	241

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DEAN PREFACE



Assalamualaikum Warahmatullahi 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

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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 agribusiness, 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.

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THE GROWTH PERFORMANCE OF PINEAPPLE (MD2) BY USING DIFFERENT PLANTING MATERIAL ON MINERAL SOIL

Nurul Halwani Mohd Razally & Wan Natasya Wan Ahmed*

Faculty of Plantation and Agrotechnology, UiTM (Malacca) Jasin Campus. 77300. Malacca.

Corresponding Author:

natasyaahmed@melaka.uitm.edu.my

ABSTRACT

This study was conducted to investigate the growth performance of pineapple by using different planting material on the mineral soil at University Technology Mara (UiTM), Jasin Campus, Melaka. The objective for this study is to identify the growth performance of pineapple (MD2) by using different planting material on mineral soil and to determine the best planting material that can be used for pineapple propagation. The planting design for this experiment is Completely Randomize Design (CRD). This study has three treatments which are crown, slip and sucker and also has three replications. The parameters that have been collected were length of leaf, number of leaf, leaf area and plant height. MD2 was chosen as pineapple the variety for this study. This study was conducted for 154 Days. The result shown the highest mean for length of leaf is sucker (37.05 cm), the highest mean number of leaf is crown (46.22 cm), width of leaf is crown (4.44 cm) and the plant height is sucker (38.44 cm). Analyze result by using ONE-WAY-ANOVA. Its showed the growth performance length of leaf was above p-value > 0.05. Obviously, there is no significant different between the treatment in term of length of leaf for T2 is surpass T0 and T1. Next, show the growth performance the number of leaf was below p-value < 0.05. Besides that, Analysis of statistic using ONE WAY ANOVA show the growth performance of leaf area was below p-value < 0.05. Observably, there is significant different between the treatment in term of number of leaf for T2 is lower than T0 and T1. Analysis of statistic using ONE WAY ANOVA show the growth performance of leaf area was above p-value > 0.05. Lastly, crown was chosen is one of the best planting material can give the advantage for farmer so that they also can reduce the cost in maintenance for pineapple cultivation.

Keyword: Pineapple (MD2), growth performance, mineral soil