

**A STUDY OF RICE BLAST DISEASE IN KAMPUNG SAWAH SEMPADAN,
SELANGOR.**

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**Final Year Project Report Submitted in
Partial Fulfilment of the Requirements for the
Degree of Bachelor of Science (Hons.) Plantation Technology and Management
in the Faculty of Plantation and Agrotechnology
Universiti Teknologi MARA**

JULY 2016

ACKNOWLEDGEMENTS

Praise to Allah s.w.t because of blessing and grace that has been given to me strength, ideas and the opportunity to complete my final year project.

First and foremost, I would like to express my gratitude towards the Supervisor for this final year project, Mr Mohd Zafri bin Ab Wahab because of advice and guiding me during the period to complete this project. Without his guidance and teaching, it will hard for me to finish this project on time and done it completely.

I would like to express our special thanks to my family that has always given support to me both spiritually and financially throughout my course of study.

Special thanks also go to all my friends because they had helped me in so many ways that directly or indirectly during the process of completing this project. Their help, supported and motivation has helped me to strive forward to achieve success.

AHMAD GHAZALI BIN RAHIM

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ABSTRACT

A STUDY OF RICE BLAST DISEASE IN KAMPUNG SAWAH SEMPADAN, SELANGOR

Production of rice are facing another problem which are pest and disease. One of the disease problem that comes up from rice production is rice blast caused by *Pyricularia oryzae*. Rice blast could be the one of the major disease that have been found in Kampung Sawah Sempadan, Selangor, which tropics environment help of causing of varying degrees of damage. In this study, information regarding to the incidence, severity and occurrence factor of blast disease in Kampung Sawah Sempadan, Selangor during hot climate or drought season were recorded. Result show there are significant diferrent ($p - \text{value} < 0.05$) for both percentage incidence and severity between the selected field except for mean incidence in field 3 and mean of severity in field 1. There are several factor that contribute to the occurrence of the disease such as cultural practices by the farmers and environmental factor.

CHAPTER 1

INTRODUCTION

1.1 Background of study

Generally, rice relatively is a major food for human and consider important for food security especially Asian countries. As demand of rice, production of rice also need to be increase as the population growing up (J.Bigirimana, 2014). Moreover, beside of food scarcity, production of rice is facing another problem which are pest and disease. One of the disease problem that comes up from rice production is rice blast caused by *Pyricularia oryzae*.

Rice blast could be the one of the major disease that found in Kampung Sawah Sempadan in Kuala Selangor which have tropics environment and this environment help the disease cause of varying degrees of damage. The pathogen attack all plant part such as leaf, neck, panicle, node, and collar. This disease can spread in several ways through seeds, other alternatives plant host and air. It is also popular paddy disease in Malaysia and classify as one of most dangerous which attack the paddy as early as 15 days after planting which can affect the yield a 100% (Sofianita et al., 2015).