

**EFFECT OF EMPTY FRUIT BUNCH BIOCHAR APPLICATION ON SOIL
PROPERTIES AND SWEET CORN (*Zea mays* L.) GROWTH**

NORFAZIDA BINTI ALI

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

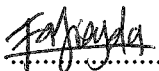
JULY 2016

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Date: 4/8/2016

Name: NORFAZIDA BINTI ALI

I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Science (Hons.) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

Signature: 

Name of Supervisor: NORFAZIDA BE ABU SAR (.....

Position: LECTURER

Date: 4/8/2016

ACKNOWLEDGEMENTS

Assalamualaikum W.B.T., I would like to express my gratitude to my supervisor, Madam Norazlina Binti Abu Sari for her constant guide and support me to finish my final year project. My sincere thank also goes to my beloved family and friends.

Thank you also for farm management units and our laboratory staff because give the permission to used the greenhouse and laboratory during period of final year project. Besides that, give the permission to use the materials in laboratory.

Final year project give me knowledge how to doing the research. It also gives me a solution how to manage the problem during doing the research. Thank a lot to faculty because give me the chance to doing my research in UiTM Melaka Campus Jasin.

NORFAZIDA BINTI ALI

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ABSTRACT

EFFECT OF EFB BIOCHAR APPLICATION ON SOIL PROPERTIES AND SWEET CORN (*Zea mays* L.) GROWTH

Biochar as soil amendment has potential increased the soil pH and improve plant growth. Biochar has many agricultural benefits. It increases crop yields. It helps to prevent fertilizer runoff and leaching, allowing the use of less fertilizers and diminishing agricultural pollution to the surrounding environment. The study test on the effect of different rates of EFB biochar applied on soil planted with sweet corn (*Zea mays* L). This study was conducted at UiTM Melaka, Campus Jasin. A glasshouse experiment was conducted to study the effect of empty fruit bunch (EFB) biochar application on soil pH and plant growth. There were five treatments used which 0, 2.5, 5, 10, and 20 t/ha. Treatments were arranged in completely randomized block design with three replication. Results of the study showed that the soil pH was increased with the increased application of EFB biochar. Besides that, plant height also show the improvement after application of EFB biochar on soil.

Keyword: EFB biochar, sweet corn, mineral soil