



FEDERAL UNIVERSITY OF TECHNOLOGY
MINNA, NIGER STATE, NIGERIA

in Collaboration with

**THE SOCIETY FOR THE CONSERVATION
OF PHYTOFUEL AND SCIENCES**

Presents

9TH

**JATROPHA INTERNATIONAL
CONFERENCE AND EXHIBITION**

JATROPHA 2019

Theme

**Jatropha as a Tool for Poverty Reduction
and National Development**

Date: 17th - 20th November, 2019.

*Venue: Centre for Preliminary and Extramural Studies (CPES) Hall, Bosso Campus,
Federal University of Technology, Minna, Niger State, Nigeria.*

Time: 10:00 am daily.

Chairman of the Occasion

Host
Professor Abdullahi Bala, FSSSN
Vice-Chancellor,
Federal University of Technology, Minna

Chief Host
His Excellency,
Alh. Abubakar Sani Bello
Governor Niger State

Keynote Speaker

**Effect of *Jatropha* Oil on the Management of Fall Armyworm (*Spodoptera Frugiperda* je smith.)
In Minna, Niger State.**

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ABSTRACT

Field research was carried out in the Teaching and Research Farm of Federal University of Technology, Minna to evaluate the effect of *Jatropha* oil on the management of fall armyworm. The experiment was arranged in Randomised Complete Block Design (RCBD) with three replicates and six varieties. 45 ml/ L of *Jatropha* oil was applied every week for four weeks using Knapsack sprayer. Data on severity of fall armyworm infestation, plant height, stem diameter, number of ears, number of rotten ears, fresh and dry cob weight and grain yield were subjected to Analysis of Variance (ANOVA) the means were separated using Duncan Multiple Range Test (DMRT). The result indicated that OPV maize variety recorded the highest grain yield while Oba super 6 demonstrated a tolerance against the infestation of fall armyworm (*Spodoptera frugiperda*). Therefore farmers could plant OPV maize variety for its high grain yield and Oba super 6 for its tolerant against the infestation of fall armyworm.

Keywords: Maize, Fall armyworm, *Jatropha*, *Spodoptera frugiperda*, Variety