

**EFFICACY OF TWO ANNONA SPECIES LEAF AQUEOUS EXTRACTS  
AGAINST TOMATO FRUIT WORM (*Helicoverpa armigera* H.) IN  
EGGPLANT (*Solanum melongena* L.)**

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**BACHELOR OF SCIENCE IN AGRICULTURE**

By

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**EFFICACY OF TWO ANNONA SPECIES LEAF AQUEOUS EXTRACTS  
APPLIED AT DIFFERENT CONCENTRATION AGAINST  
TOMATO FRUIT WORM (*Helicoverpa armigera* H.)**

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**ABSTRACT**

The study was conducted at the College of Agriculture, Resources and Environmental Sciences laboratory room, Central Philippine University, Jaro, Iloilo City from May 18 to 21, 2019. The purpose of this study was to evaluate the efficacy of two *Annona* species leaf aqueous extracts against tomato fruit worm (*Helicoverpa armigera* H.) in eggplant (*Solanum melongena* L.). Particularly, this study aimed to determine the percent mortality of tomato worm and percentage of damaged fruits of eggplant dipped in different concentrations of *A. muricata* L. and *A. squamosa* L. The treatments were composed of *A. muricata* L. and *A. squamosa* L. leaf aqueous extract at 5% and 10% concentrations. Distilled water was used as negative control. There were four young eggplant fruits in each treatment. The experimental treatments were laid out in a completely randomized design with three replications. Results revealed that the 5% and 10% concentrations of *A. muricata* L. and *A. squamosa* L. (33.33 – 50%, 33.33 – 63.89%, 52.78 – 63.89%) were comparable with each other, and are significantly more potent than negative control with 0% mortality on the 24<sup>th</sup>, 48<sup>th</sup>, and 72<sup>nd</sup> hour after introduction at 5% level of probability, respectively. Percent of damaged fruit (PDF) data obtained on the 72<sup>nd</sup> hour after treatment shows that 5% and 10% *A. muricata* L. and *A. squamosa* L. have

significantly ( $P < .05$ ) lower percentage of damaged fruits with 33.33%, 25.00%, 16.67% and 25.00%, respectively as compared to the negative control with 91.67%.