FIELD EVALUATION OF FENOS 48oSC AGAINST TOMATO FRUIT WORMS *Helicoverpa armigera* (Hubner) NOCTUIDAE: LEPIDOPTERA

THESIS

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ABSTRACT

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The study was conducted to evaluate the effectiveness, of Fenos 480SC on the insect pests and the level of damage in tomatoes; to evaluate the efficacy of Fenos 480SC insecticide against fruit worms and other lepidopterous insects in tomato; to determine the most effective dose rate of Fenos 480SC against the target insect pests; and to compare the efficacy of different dose rates of Fenos 480SC with Selecron against insect pests of tomato.

A barren area in Daine, Indang Cavite was used in the study. Five treatments were used, T1- untreated plants, T2- treatment plants with 0.8g Fenos 480SC, T3- treatment plants with 1.6g Fenos 480SC, T4- treatment plants with 2.4g Fenos 480SC and T5- treatment plants with 32ml Selecron 500SC.

In terms of effectiveness of pesticides against fruit worms before treatments, T2, (0.8g Fenos 480 SC) and T4, (2.4g Fenos) were the most effective, while among the after treatments T5, (Selecron) was the most effective.

For the mean count of fruits before treatment, T2, (0.8g Fenos 480 SC) was the highest with 1281.8 fruits were in after treatment, T1, (untreated plants) was the highest.

For total harvested fruits, untreated plants has the highest fruits harvested compared to all treatments with pesticides.

The untreated plants had the highest rate of fruit worms infestation. All the plants treated with insecticides were able to control the fruits by 98.99 %.

Harvest of fruits was not affected by the treatment of insecticides. Fenos 480 SC at 1.6g dosages had the highest weight of fruits from fruit worm pests.

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INTRODUCTION

Fenos 480SC, Flubendiamide, is a newly introduced insecticide in the Philippines. The product has obtained conditional registration for application in cabbage and eggplant. It is a fast acting and long lasting insecticide offering farmers a broad spectrum control of lepidopterous insect pests. It is safe to beneficial insects and shows no cross resistance, (Klausener, 2006). However, there is a need to test this pesticide on tomato plants. Similarly, Selecron 500SC is an insecticide against lepidopterous pest, trips, aphids, and mites depending on the type of crop and pest. It is recommended at the rate of 1.0 to 1.5 liter of formulated product per hectare. The treatment is repeated as necessary to maintain and control the pest.