DECLARATION

This Final Year Project is a partial fulfillment of the requirements for a degree of Bachelor of Science (Hons.) Technology and Plantation Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

It is entirely my own research and has not been submitted to any other University or higher education institution, or for any other academic award in this University. Where use has been made of the work of other people it has been fully acknowledged and fully referenced.

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Candidate’s signature: ............................................ Date:....................

Name: FIRDHAUS BIN JAMALULLAIL

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.) Technology and Plantation Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

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Date: 14/9/2018

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In the name of Allah s.w.t, the Most Gracious and the Most Merciful.

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ABSTRACT

Long bean is a minor crop and it is vigorous climbing plant that can reach 9 to 12 feet. Proper stake was prepared for them to climb and hold. This plant is susceptible to many pests for example black bean aphids, spider mites, nematodes, and mosaic viruses. One of the popular pests for this plant is aphids. This research was conducted to find out a control strategy of aphids attack. Experiments were undertaken in the farm of UiTM Jasin. There were several treatments used namely water, Imidaclorpid (Confidor) and Dinotefuran (Oshin). Water were used as control (treatment 1), Imidaclorpid (treatment 2) and Dinotefuran (treatment 3). All the treatments were replicated four times. Results indicated that both treatments gave significant difference in mean number of aphids compared to control, however, Imidaclorpid (Confidor 200 SL) was found as the most effective in controlling aphids with low number of aphids compared with other treatments. After two weeks insecticide application, number of aphids started to increase because all the treatments have lost their efficacy. As conclusion, the result showed that Imidaclorpid was the most effective in controlling number population of aphid compared with other treatments.