

**EFFECTIVITY OF VEGETABLE ATTRACTANT FOR TRAP AND IDENTIFICATION OF FRUIT FLIES (*Bactrocera* spp.) AT SALAK PLANTATIONS TURI DISTRICT, SLEMAN, YOGYAKARTA**

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**ABSTRACT**

Salak (*Salacca zalacca*) is a plant that bears fruit throughout the year and is one of the tropical fruits favored by consumers in Europe and America. Indonesia, especially Sleman Regency, Special Region of Yogyakarta Province, is one of the largest salak pondoh fruit production centers in the world. Fruit flies are one of the main obstacles to the national production and export of salak. Control of fruit flies can be done by setting a trap in which cotton has been dripped with various types of attractants (clove extract, basil extract and citronella extract) at different doses. The purpose of this study was to determine the effectiveness of the types of vegetable attractants and the doses of attractants on the number and types of fruit flies caught. This research was conducted at salak plantation in Turi, Sleman, Yogyakarta in December 2020 – May 2021 using a Completely Randomized Design (CRD) with 1 factor. There were 12 treatments including: clove extract 0,5 mL; clove extract 1 mL; clove extract 1.5 mL; clove extract 2 mL; purple basil extract 0.5 mL; purple basil extract 1 mL; purple basil extract 1.5 mL; purple basil extract 2 mL; citronella extract 0.5 mL; citronella extract 1 mL; citronella extract 1.5 mL; and citronella extract 2 mL. Data analysis of the number of fruit flies that caught in the trap using clove extract, purple basil extract, and citronella extract. The result showed that the best attractant was 1,5 mL of purple basil extract. The effectiveness of purple basil extract is most effective in trapping catching fruit flies, but the clove extract and citronella extract is considered ineffective in catching fruit flies. There are three types of fruit flies, *Bactrocera carambolae*, *Bactrocera papayae* and *Bactrocera umbrosa*.

**Keywords : *Bactrocera* spp., Attractant, Clove, Citronella, Purple Basil.**