

***EFFECT OF NATURAL INSECTICIDA PLANT PICUNG (*Pangium edule*)
AND SERAI WANGI (*Cymbopogon nardus*) ON MORTALITY OF COFFEE
FRUIT BORROWER PEST (*Hypothenemus hampei*)***

Guided by Setyo Andi Nugroho, S.Pd., M.Si.

Fitriyatul Fadilah

*Plantation Cultivation Study Program
Department of Agricultural Production*

ABSTRACT

*Coffee fruit borer (*Hypothenemus hampei*) is one of the main pests in coffee plants that can reduce coffee productivity by damaging coffee fruit. This is a major problem for coffee plantations because it results in low productivity and the quality of coffee products that do not meet the standards. Coffee is also the largest source of income for Indonesia, which is the fourth coffee-producing country after Brazil, Vietnam and Colombia because some of the population earns a living as coffee farmers. Control of coffee fruit borers (*Hypothenemus hampei*) is necessary to improve coffee quality. Controlling coffee fruit borers (*Hypothenemus hampei*) has several ways, one of which is by using vegetable insecticides of picung and citronella extracts. The purpose of this study was to determine the effect of picung extract vegetable pesticide, to determine the effect of citronella extract vegetable pesticide and to determine the effect of interaction of picung extract and citronella on coffee fruit borer (*Hypothenemus hampei*). The study used a Completely Randomized Factorial Design (RALF), consisting of 2 factors, namely the provision of picung plant seed extract with concentrations (0%, 15%, 25%, 35%) and the provision of citronella plant extract with concentrations (0%, 15%, 25%, 35%). There are 16 combinations and 3 replicates. The parameters used were mortality, physical changes, LT50 and feeding power. The results showed that picung and citronella extracts were effective against *Pbko* pests with the fastest mortality reaching 80% mortality in treatment P3S3 (144 hours), with the fastest LT50 value (91 hours) and the smallest feeding power value of 0.08 grams.*

*Keywords: Plant Insecticides, *Hypothenemus hampei*, Picung, Citronella*