

**Abstract**

**THE EFFECT OF CONCENTRATION OF CLOVE LEAVE EXTRACT  
(*Syzygium Aromaticum*) ON THE INSECT REPELLENT DIFFUSER ON FLY  
DENSITY AT PT. X**

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Xxvii + 99 pages + 18 tables + 18 pictures + 8 attachments

PT.X is one of the industries engaged in the food sector, one of which is bread processing. In the process of making bread, namely mixing (mixing) the addition of raw materials, namely the addition of eggs, the nature of the eggs that smell rancid and there is spillage on the egg tray so that it can attract insect to come closer to find food and breed. Flies are a group of insect that thrive and live in dirty places and play a role in the spread of diseases such as dysentery, cholera, thypoid, diarrhea and other diseases. The purpose of this study was to setermine the effect of the concentration of clove leaf extract (*Syzygium aromaticum*) on the insect reppelent diffuser on the density of flies in the egg processing site of PT. X. This type of research is an experimental research design with *pre test post test without control*. The sample in this study were flies in the egg processing area at PT. X. The sampling technique is incidental sampling. The treatment givem were 3 (theree) treatment, namely variation in concentration of 10%, 15% and 20%. Observational data were analyzed using the one one ANOVA test, the results of the pretest showed that there was no significant relationship, while the posttest showed that there was a significant relationship between variation in the concentration of clove leaf extract and the density of flies at PT. X egg processing plant. The result of the measurement of the number of flies that were rejected with clove leaf extract at a concentration of 10% were 5 brid with a 25% decrease percentage, aconcentration 15% was 9 brids with a percentage of 42% and a concentration of 20% wa 17 with a percentage of 81%. Based on the research, the concentration that can resist the presence of flies is at a concentration of 20%. It is necessary to develop further research by increasing the concentration to a higher concentration and designing a larger device so that more steamis released and spreads out.

REFERENCES : 37 (2007-2017)

KEYWORDS : Clove Leaf Extract, Diffuser Insect Reppelent, Flies Density, Egg processing plase