

Thesis Title Effect of Using Trichlorfon and Pirimiphos-methyl on Dried Fish.
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ABSTRACT

The objective of this research was to study the effect of using trichlorfon and pirimiphos-methyl on dried fish. Experimental work was divided into 3 aspects namely the efficacy of trichlorfon and pirimiphos-methyl to prevent dried salted fish from houseflies, Musca Domestica, the degradation of trichlorfon and pirimiphos-methyl in salted fish in various concentrations and the reduction of trichlorfon and pirimiphos-methyl in salted fish in various concentrations. Experimental designs were RCB, and Factorial in RCB respectively. The samples were extracted using Anderson's method and analyzed with GC. The results were processed statistically using ANOVA and DMRT.

The results obtained from this work show that trichlorfon is 21 times more toxic than pirimiphos-methyl, therefore pirimiphos-methyl should be recommended to control houseflies on dried fish rather than trichlorfon, and the recommended concentration is 0.03%. In addition, pirimiphos-methyl can be reduced from dried fish more than trichlorfon can be after the cooking process, particularly if fish is washed before frying or boiling as is recommended.