

***The Effect of Giving Golden Snail Flour
(Pomacea canaliculata L.) And Azolla pinnata on The
Internal Organs of Quail (Coturnix coturnix japonica)***
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ABSTRACT

High feed costs are one of the factors that affect production efficiency in quail farming. Therefore, alternative feed ingredients are needed that are more economical but still have good nutritional value. Golden apple snails (Pomacea canaliculata L.) have the potential to be used as a source of animal protein, while Azolla pinnata can be used as a source of vegetable protein, but the use of alternative feed ingredients needs to be proven safe through evaluation of the condition of livestock internal organs. The purpose of this study was to provide the effect of giving golden apple snail flour, Azolla pinnata and a combination of both on the percentage of ventricle weight, percentage of liver weight, percentage of heart weight and length of the small intestine. This study used a Completely Randomized Design (CRD) with 4 treatments and 5 replications, namely P0 (control feed without golden apple snails and Azolla pinnata); P1 (golden apple snail 10%); P2 (Azolla pinnata 10%); P3 (Azolla pinnata 10% + golden apple snail 10%). The parameters measured were the percentage of ventricle weight, percentage of liver weight, percentage of heart weight and length of the small intestine. Significantly different results were followed up with the Duncan Multiple Range Test (DMRT). The results showed that the administration of golden apple snail flour, Azolla pinnata flour, or a combination of both did not have a significant effect ($P > 0.05$) on the percentage of the weight of the ventricle, liver, heart, and length of the small intestine of quail. The values obtained were still within the normal range. The conclusion of this study is that the administration of Azolla pinnata flour (P1), golden apple snail flour (P2), and a combination of both (P3) in the ration, did not have a significant effect on the percentage of internal organ weight and small intestine length. This indicates that the use of golden apple snail flour, Azolla pinnata flour and a combination of both tends not to cause changes or disorders in the internal organs of quail.

Keywords: *Quail, internal organs, Azolla pinnata flour, golden snail flour*