

***THE APPLICATION OF ASTAXANTHIN, MARIGOLD FLOWER,
AND PAPRIKA IN THE DIET ON THE PRODUCTION
PERFORMANCE OF LAYING DUCKS***

Mashudi Haris
*Poultry Agribusiness Study Program
Department of Animal Science*

ABSTRACT

This study aims to determine the application of marigold flower and paprika feed additives in the diet on the production performance of laying ducks. The study used a Completely Randomized Design (CRD) and Analysis of Variance (ANOVA), involving 60 ducks divided into 4 treatments and 5 replications, with the following addition levels: P0 = no treatment (control), P1 = 0,02% astaxanthin, P2 = 1% marigold flower, P3 = 1% paprika. The data obtained were analyzed using ANOVA to determine whether there were significant differences ($P > 0.05$) among the treatments. Based on the results of this study, it can be concluded that the application of paprika affects the increase in egg production and feed-to-egg ratio efficiency, but has no effect on reducing feed consumption. Astaxanthin and marigold flowers have no significant effect on reducing feed consumption, increasing egg production, and feed-to-egg ratio efficiency.

Keywords: *Laying Ducks, Astaxanthin, Marigold Flower, Paprika, Production Performance of Laying Ducks*