

PENGARUH SUPLEMENTASI TEPUNG *AZOLLA MICROPHYLLA* DALAM RANSUM TERHADAP KUALITAS TELUR PUYUH

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INTISARI*

Penelitian ini bertujuan untuk mengetahui pengaruh suplementasi tepung *Azolla microphylla* dalam ransum terhadap kualitas telur puyuh. Penelitian ini menggunakan 75 ekor puyuh fase layer yang berumur 9 minggu. Variabel yang diamati adalah kualitas telur meliputi bobot telur, bobot dan persentase kerabang telur, warna kuning telur, bobot dan persentase albumen (putih telur), bobot dan persentase yolk (kuning telur) dan beta karoten. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) pola searah yang terdiri dari 5 perlakuan dan 3 kali ulangan. Data dianalisis menggunakan *Analysis of Variance* (ANOVA), jika terdapat perbedaan yang nyata dilanjutkan menggunakan *Duncan's New Multiple Range Test* (DMRT). Perlakuan yang diberikan adalah perlakuan dengan ransum kontrol, ransum perlakuan dengan tepung *Azolla microphylla* 2,5%, ransum perlakuan dengan tepung *Azolla microphylla* 5%, ransum perlakuan dengan tepung *Azolla microphylla* 7,5% dan ransum perlakuan dengan tepung *Azolla microphylla* 10%. Hasil penelitian menunjukkan bahwa suplementasi tepung *Azolla microphylla* sampai level 10% dalam ransum berpengaruh nyata ($P < 0,05$) terhadap persentase kerabang telur, warna kuning telur, beta karoten, namun tidak berbeda nyata ($P > 0,05$) terhadap bobot telur, bobot kerabang, bobot dan persentase albumen (putih telur), bobot dan persentase yolk (kuning telur). Disimpulkan bahwa suplementasi tepung *Azolla microphylla* sampai level 10% dalam ransum dapat memperbaiki kualitas telur puyuh yaitu persentase kerabang telur, warna kuning telur dan beta karoten telur.

Kata kunci : *Azolla microphylla*, kualitas telur, burung puyuh.

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THE EFFECT OF *AZOLLA MICROPHYLLA* FLOUR SUPPLEMENTATION IN RATION ON QUAIL EGG QUALITY

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ABSTRACT*

This study aims to determine the effect of *Azolla microphylla* flour supplementation on ration on the quality of quail eggs. This study used 75 layers of quails of the 9-week-old layer. The observed variables were egg quality including egg weight, eggshell weight and percentage, egg yolk color, weight and percentage of albumen (egg white), weight and percentage of yolk (egg yolk) and beta carotene. This study uses a completely randomized design (RAL) in a unidirectional pattern consisting of 5 treatments and 3 replications. Data were analyzed using *Analysis of Variance* (ANOVA), if there were real differences followed by *Duncan's New Multiple Range Test* (DMRT). The treatment given is treatment with control ration, treatment ration with *Azolla microphylla* flour 2.5%, treatment ration with *Azolla microphylla* flour 5%, treatment ration with *Azolla microphylla* flour 7.5% and treatment ration with *Azolla microphylla* flour 10%. The results showed that supplementation of *Azolla microphylla* flour to the level of 10% in the ration had a significant effect ($P < 0.05$) on eggshell percentage, egg yolk color, beta carotene, but not significantly different ($P > 0.05$) on egg weight, eggshell weight, weight and percentage of albumen (egg white), weight and percentage of yolk (egg yolk). It was concluded that supplementation of *Azolla microphylla* flour to a level of 10% in the ration could improve the quality of quail eggs ie eggshell percentage, egg yolk color and beta carotene eggs.

Keywords : *Azolla microphylla*, egg quality, quail.

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