

PENGARUH PENGGUNAAN TEPUNG *AZOLLA MICROPHYLLA* DALAM RANSUM TERHADAP KINERJA PUYUH PETELUR

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INTISARI *)

Penelitian ini bertujuan untuk mengetahui pengaruh penggunaan tepung *Azolla microphylla* dalam ransum terhadap kinerja puyuh petelur pada fase layer. Penelitian dilaksanakan pada 31 Maret sampai dengan 26 Mei 2020. Tempat penelitian dilaksanakan di UPT Ternak Universitas Mercu Buana Yogyakarta, Dusun Kaliurang, Desa Argomulyo, Sedayu, Bantul. Penelitian menggunakan burung puyuh betina fase layer umur 9 minggu sejumlah 75 ekor dipelihara selama 8 minggu. Data dianalisis dengan analisis variansi dalam Rancangan Acak Lengkap (RAL) pola searah yang terdiri dari 5 perlakuan dengan 3 ulangan. Apabila hasil penelitian ini terdapat beda nyata dilanjutkan dengan uji *Duncan's Multiple Range Test* (DMRT). Perlakuan yang digunakan yaitu P0 (0% tepung *Azolla microphylla*), P1 (2,5% tepung *Azolla microphylla*), P2 (5% tepung *Azolla microphylla*), P3 (7,5% tepung *Azolla microphylla*), P4 (10% tepung *Azolla microphylla*). Rerata konsumsi pakan P0: 20,42; P1: 23,73; P2: 23,62; P3: 23,45 P4: 21,18 gram/ekor/hari. Rerata produksi telur P0: 47,14; P1: 53,33; P2: 55,00; P3: 52,26; P4: 46,79%. Rerata bobot telur P0: 11,20; P1: 10,78; P2: 11,19; P3: 11,28; P4: 11,32 gram. Rerata Konversi Pakan P0: 3,87; P1: 4,14; P2: 3,85; P3: 4,01; P4: 4,04 dan Rerata *Income over feed cost* P0: 4.875; P1: 5.367; P2: 7.592; P3: 6.559; P4: 6.326 Rp/ulangan. Dari hasil penelitian dapat disimpulkan bahwa penggunaan 5% tepung *Azolla microphylla* dalam ransum puyuh petelur dapat mempertahankan kinerja puyuh petelur dan menghasilkan IOFC terbaik.

Kata kunci: Puyuh petelur, Kinerja, *Azolla microphylla*.

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THE EFFECT OF *AZOLLA MICROPHYLLA* MEAL USAGE IN RATION ON PERFORMANCE OF LAYER QUAIL

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ABSTRACT *)

This research aims to determine the effect of *Azolla microphylla* meal usage in ration on performance of layer quail in the layer phase. Research conducted at March 31 to May 26, 2020. The research site was at the UPT Teaching Farm Mercu Buana University of Yogyakarta, Kaliurang Hamlet, Argomulyo Village, Sedayu, Bantul. This research used a female quail layer 9 weeks of age with a total of 75 animals kept for 8 weeks. The Datas were analyzed by analysis of variance in a completely randomized design (CRD) unidirectional pattern consist of 5 treatments with 3 replications ,if the results of this research are significantly different followed by the Duncan's Multiple Range Test (DMRT). The treatments used were P0 (0% tepung *Azolla microphylla*), P1 (2.5% *Azolla microphylla* meal), P2 (5% *Azolla microphylla* meal), P3 (7.5% *Azolla microphylla* meal), P4 (10% *Azolla microphylla* meal). Average feed consumption P0: 20.42; P1: 23.73; P2: 23.62; P3: 23,45 P4: 21,18 grams / head / day. Average egg production P0: 47, 14; P1: 53,33; P2: 55,00; P3: 52,26; P4: 46,79%. Average egg weight P0: 11,20; P1: 10,78; P2: 11,19; P3: 11,28; P4: 11,32 grams. Average of Feed Conversion P0: 3,87; P1: 4.14; P2: 3.85; P3: 4,01; Q4: 4,04 and Average Income over feed cost P0: 4.875; P1: 5.367; P2: 7.592; P3: 6.559; P4: 6.326 Rp / Repetiton. Based on the results of the research it was conclude that the use of 5% *Azolla microphylla* meal in laying quail rations can maintain the performance of laying quail and produce the best IOFC.

Keywords: Layer Quail, Performance, *Azolla microphylla*.

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