

PENGARUH ARAS AIR SADAH DALAM AIR MINUM TERHADAP KINERJA AYAM BROILER

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ABSTRAK^{*)}

Penelitian ini bertujuan untuk mengetahui pengaruh aras air sadah terhadap kinerja ayam broiler. Penelitian ini dilakukan pada tanggal 21 Mei – 23 Juni 2019 di desa Kauman, Gilangharjo, Pandak, Bantul. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) pola searah dengan 4 perlakuan dan 3 kali ulangan. Setiap perlakuan menggunakan 5 ekor ayam sehingga ayam yang digunakan sebanyak 75 ekor dan dipelihara selama 30 hari. Perlakuan yang digunakan yaitu P0 (kontrol), P1 (25% air sadah), P2 (50% air sadah), P3 (75% air sadah) dan P4 (100% air sadah). Variabel yang diamati adalah konsumsi air minum, konsumsi pakan, penambahan berat badan, konversi pakan, *Index Performance* (IP) dan *Income Over Feed and Chick Cost*(IOFCC). Data yang diperoleh dianalisis dengan *Analysis of Variance* (ANOVA) bila berbeda nyata dilanjutkan dengan uji *Duncan's new Multiple Range Test* (DMRT). Hasil penelitian diperoleh rerata konsumsi air minum P0:197,06; P1: 196,95; P2: 196,48; P3: 193,03; P4: 190,91 ml/ekor/hari; konsumsi pakan P0: 96,39; P1: 96,48; P2: 96,10; P3: 95,88; P4: 95,68 g/ekor/hari; penambahan berat badan: P0: 65,08; P1: 63,18; P2: 61,43; P3: 60,73; P4:56,68 g/ekor/hari; konversi pakan: P0: 1,48; P1: 1,52; P2:1,56; P3:1,57; P4:1,68; indeks performa: P0: 448,56; P1: 422,79; P2: 402,64 P3: 393,20; P4: 343,82 dan IOFCC: P0: Rp7434; P1: Rp6401; P2: Rp5559; P3: Rp5195; P4: Rp3059 per ekor. Dari penelitian ini disimpulkan bahwa penggunaan air sadah sampai level 100% menurunkan konsumsi air minum, konsumsi pakan, penambahan berat badan, konversi pakan, *Index Performance* dan *Income Over Feed and Chick Cost* (IOFCC).

Kata kunci: air sadah, kinerja, ayam broiler

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THE EFFECT OF USING HARD WATER IN DRINKING WATER
ON BROILER PERFORMANCE

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ABSTRACT*)

This research aims to determine the effect of the hard water level of the broiler chick performance. This research was conducted on 21 May – 23 June 2019 at Kauman, Gilangharjo, Pandak, Bantul. This research uses the completely randomized designs (RAL) pattern in the direction of 5 treatments and 3 times repeated. Each repeated uses 5 chickens so that the chickens are used as much as 75 chicks and maintained for 30 days. The treatment used is P0 (control), P1 (25% hard water), P2 (50% hard water), P3 (75% hard water) and P4 (100% hard water). The observed variables are consumption of drinking water, feed consumption, weight gain, feed conversion, *Index Performance* (IP) and *Income Over Feed and Chick Cost* (IOFCC). The obtained Data is analyzed with Analysis of Variance (ANOVA) when different is real followed by the test of Duncan new Multiple Range Test (DMRT). Results of the study obtained average consumption of drinking water P0:197.06; P1:196.95; P2:196.48; P3:193.03; P4:190.91 ml/chicks/day; Consumption of P0 feed: 96.39; P1:96.48; P2:96.10; P3:95.88; P4:95.68 g/chicks/day; Weight gain: P0:65.08; P1:63.18; P2:61.43; P3:60.73; P4:56.68 g/chicks/day; Feed conversion: P0:1.48; P1:1.52; P2:1.56; P3:1.57; P4:1.68; Performance index: P0:448.56; P1:422.79; P2:402.64 P3:393.20; P4:343.82 and IOFCC: P0: Rp7434; P1: Rp6401; P2: Rp5559; P3: Rp5195; P4: Rp3059/chicks. From this research concluded that the use of fast water until the level of 100% lowering drinking water consumption, feed consumption, weight gain, feed conversion, *Index Performance* and *Income Over Feed and Chick Cost* (IOFCC).

Key Words: hard water, performance, broiler

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