

PENGARUH LAMA SIMPAN TERHADAP FERTILITAS DAN KUALITAS TETAS TELUR AYAM KUB

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INTISARI*)

Penelitian ini bertujuan untuk mengetahui pengaruh lama simpan telur terhadap fertilitas dan kualitas tetas (susut tetas, bobot tetas dan daya tetas) pada ayam KUB. Penelitian ini dilaksanakan pada tanggal 02 Oktober sampai dengan 30 Oktober 2023 di peternakan ayam KUB milik Kelompok Wanita Tani (KWT) Sari Dewi II yang berlokasi di Gubug, RT 51, Argosari, Kecamatan Sedayu, Kabupaten Bantul, Daerah Istimewa Yogyakarta. Penelitian ini menggunakan 90 butir telur yang terbagi dalam 3 perlakuan, masing-masing perlakuan dilakukan 3 kali ulangan, setiap ulangan menggunakan telur sebanyak 10 butir. Metode penelitian secara eksperimental dengan menggunakan rancangan acak lengkap (RAL) pola searah dengan 3 perlakuan terdiri dari P1 (penyimpanan telur selama 1 hari), P2 (penyimpanan telur selama 4 hari) dan P3 (penyimpanan telur selama 7 hari). Suhu inkubasi yang digunakan 37,2°C sampai 38°C. Variabel yang diamati adalah fertilitas (%) dan kualitas tetas telur yang meliputi susut tetas (%) bobot tetas (g) dan daya tetas (%). Data yang diperoleh dianalisis dengan *analysis of variance* (ANOVA) menggunakan software SPSS versi 25. Apabila dari *analysis of variance* terdapat perbedaan yang nyata, dilanjutkan dengan *duncan's multiple range test* (DMRT). Hasil penelitian berdasarkan uji DMRT menunjukkan bahwa rerata fertilitas telur antar perlakuan berbeda tidak nyata 0,145 ($P>0,05$). Rerata susut tetas antar perlakuan menunjukkan perbedaan yang nyata 0,000 ($P<0,05$). Rerata daya tetas pada perlakuan P1 dan P2 berbeda tidak nyata 0,004 ($P>0,05$) tetapi berbeda nyata dengan P3 ($P>0,05$). Rerata bobot tetas antar perlakuan menunjukkan perbedaan tidak nyata 0,721 ($P>0,05$). Berdasarkan hasil penelitian disimpulkan bahwa lama simpan telur 1 hari menghasilkan fertilitas, susut tetas, daya tetas dan bobot tetas yang baik.

Kata kunci: Ayam KUB, Fertilitas, Susut Tetas, Daya Tetas, Bobot Tetas, Lama Penyimpanan.

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THE INFLUENCE OF STORAGE TIME ON EGG FERTILITY AND HATCHING QUALITY OF KUB CHICKEN

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ABSTRACT*)

This research aims to determine the effect of egg storage time on fertility and hatching quality (hatch loss, hatching weight and hatchability) in KUB chickens. This research was carried out from 02 October to 30 October 2023 at the KUB chicken farm belonging to the Sari Dewi II Women Farmers Group (KWT) located in Gubug, RT 51, Argosari, Sedayu District, Bantul Regency, Special Region of Yogyakarta. This research used 90 eggs which were divided into 3 treatments, each treatment was carried out 3 times, each repetition used 10 eggs. The research method was experimental using a completely randomized design (CRD) with a unidirectional pattern with 3 treatments consisting of P1 (egg storage for 1 day), P2 (egg storage for 4 days) and P3 (egg storage for 7 days). The incubation temperature used was 37.2°C to 38°C. The variables observed were fertility (%) and egg hatching quality which included hatching loss (%) hatching weight (g) and hatchability (%). The data obtained were analyzed by analysis of variance (ANOVA) using SPSS version 25 software. If from the analysis of variance there were significant differences, it was continued with Duncan's multiple range test (DMRT). The results of research based on the DMRT test showed that the average egg fertility between different treatments was not significant at 0.145 ($P>0.05$). The mean hatching loss between treatments showed a significant difference of 0.000 ($P<0.05$). The mean hatchability in treatments P1 and P2 was not significantly different at 0.004 ($P>0.05$) but was significantly different from P3 ($P>0.05$). The mean hatching weight between treatments showed an insignificant difference of 0.721 ($P>0.05$). Based on the research results, it was concluded that egg storage time of 1 days resulted in good fertility, hatching loss, hatchability and hatching weight.

Keywords: KUB Chicken, Fertility, Hatching Loss, Hatchability, Hatching Weight, Storage Time.

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