

ABSTRAK

Pengaruh Indeks Bentuk Dan Warna Kerabang Terhadap Fertilitas Dan Bobot Tetas Telur Ayam Buras

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh indeks bentuk telur terhadap fertilitas dan bobot tetas ayam buras, untuk mengetahui pengaruh warna kerabang terhadap fertilitas dan bobot tetas ayam buras, dan untuk melihat interaksi antara indeks bentuk dan warna kerabang telur terhadap fertilitas dan bobot tetas ayam buras. Penelitian ini dilaksanakan di lahan percontohan lembaga swadaya masyarakat (LSM) bumi hijau Maquaponik Farm, Kelurahan Gamayou, Kecamatan Ternate Tengah. Telur yang digunakan sebanyak 810 butir. Rancangan yang digunakan adalah Rancangan Acak Lengkap dengan 2 faktor dengan 3 level perlakuan dan 3 ulangan. Perlakuan terdiri dari faktor A Indeks bentuk telur A1 (65% Bentuk lonjong), A2 (75% bentuk oval) dan A3 (85% bentuk bulat), Faktor B warna kerabang telur B1 (Putih), B2 (coklat muda) dan B3 (coklat). Parameter yang diamati yaitu fertilitas dan bobot tetas. Data yang dianalisis menggunakan *analisis of variance* (ANOVA) dan jika terdapat perbedaan antara perlakuan dilakukan dengan uji Duncan. Hasil penelitian Faktor A indeks bentuk telur (lonjong, oval dan bulat) memberikan pengaruh yang nyata ($P < 0,01$) fertilitas telur ayam buras. Berdasarkan hasil penelitian dapat disimpulkan Faktor indeks telur dan warna kerabang tidak berinteraksi terhadap fertilitas dan bobot tetas ayam buras. Indeks telur oval (15%) menghasilkan fertilitas dan daya tetas yang baik yaitu sekitar 83, 33% dan 44,17%. Warna kerabang menghasilkan fertilitas dan bobot tetas ayam buras yang sama.

Kata Kunci : *Fertilitas telur ayam buras, pengaruh indeks bentuk telur pada ayam buras, Pengaruh warna kerabang terhadap fertilitas telur ayam buras.*

ABSTRACT

Effect of Shell Shape and Color Index on Fertility and hatching weight of free-range chicken eggs

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ABSTRACT

This study aims to determine the effect of egg shape index on fertility and hatching weight of native chickens, to determine the effect of shell color on fertility and hatching weight of native chickens, and to see the interaction between eggshell shape and color index on fertility and hatching weight of native chickens. This research was carried out in the pilot land of the Bumi Hijau Non-Governmental Organization (NGO) Maquaponik Farm, Gamayou Village, Central Ternate District. Eggs used as many as 810 eggs. The design used was a completely randomized design with 2 factors with 3 treatment levels and 3 replications. The treatments consisted of factor A, egg shape index A1 (65% oval shape), A2 (75% oval shape) and A3 (85% round shape), Factor B egg shell color B1 (white), B2 (light brown) and B3 (chocolate). Parameters observed were fertility and hatching weight. The data were analyzed using the analysis of variance (ANOVA) and if there was a difference between the treatments, the Duncan test was used. The results of the study that Factor A index egg shape (oval, oval and round) had a significant effect ($P < 0.01$) on the fertility of native chicken eggs. Based on the results of the study, it can be concluded that the egg index factor and shell color do not interact with the fertility and hatching weight of native chickens. Oval egg index (15%) produced good fertility and hatchability, namely around 83, 33% and 44.17%, respectively. The color of the shell produces the same fertility and hatching weight of native chickens.

Keywords: *Domestic hens egg fertility, the effect of egg shape index on native chickens, The effect of shell color on the fertility of domestic chicken eggs.*