

Pengaruh Jarak Pubis, Panjang Shank, dan Lingkar Shank Terhadap Produktivitas Ayam Buras (*Gallus domesticus*)

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ABSTRAK

Ayam buras merupakan salah satu unggas lokal yang dipelihara sebagai penghasil telur tetas, telur konsumsi, dan daging. Variabel-variabel morfometrik dapat menjadi penciri ukuran dan bentuk tubuh ayam buras (bukan ras) potensi produksi dan produktivitas ayam buras. Penelitian ini bertujuan untuk mengetahui apakah pengaruh morfometrik berpengaruh terhadap fertilitas, daya tetas, dan bobot tetas ayam buras. Penelitian ini menggunakan data dari 16 ekor ayam buras betina. Data dianalisis menggunakan metode statistik deskriptif. Variabel yang di amati adalah produksi telur, fertilitas, daya tetas dan bobot tetas ayam buras. Analisis data dilakukan dengan menggunakan Analysis of Variance (ANOVA). Hasil analisa sidik ragam menunjukkan bahwa bahwa jarak pubis, panjang shank dan lingkar shank berpengaruh sangat nyata ($P<0,01$) terhadap produksi telur, fertilitas, dan daya tetas dan lingkar shank hanya berpengaruh nyata ($P<0,01$) terhadap bobot tetas. Hasil penelitian pada Farm Maquaponik menunjukkan bahwa fertilitas, daya tetas telur, dan bobot tetas DOC yang dihasilkan sudah cukup baik.

Kata Kunci : *Ayam buras, morfometrik, produksi telur, fertilitas, daya tetas, dan bobot tetas.*

The Effect of Pubic Distance, Shank Length, and Shank Circumference on the Productivity of Free-range Chicken (*Gallus domesticus*)

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ABSTRAC

Free-range chicken is one of the local poultry that is kept as a producer of hatching eggs, consumption eggs, and meat. Morphometric variables can be used to characterize the size and body shape of native chickens (non-breed) for potential production and productivity of native chickens. This study aims to determine whether the effect of morphometric effect on fertility, hatchability, and hatching weight of native chickens. This study used data from 16 female domestic chickens. Data were analyzed using descriptive statistical methods. The variables observed were egg production, fertility, hatchability and hatching weight of native chickens. Data analysis was performed using Analysis of Variance (ANOVA). The results of analysis of variance showed that pubic distance, shank length and shank circumference had a very significant effect ($P < 0.01$) on egg production, fertility, and hatchability and shank circumference only had a significant effect ($P < 0.01$) on hatching weight. The results of the research on Farm Maquaponics showed that the fertility, hatchability of eggs, and hatching weight of DOC produced were quite good.

Keywords : *domesticated chicken, morphometric, egg production, fertility, hatchability, and hatching weight.*