

RINGKASAN

ALDILLA JALU SATRIO. Penelitian berjudul “Hubungan Lingkar Dada dan Indeks Kebapuhan Dengan Bobot Tubuh Kambing Muda Jantan Khas Kejobong Kabupaten Purbalingga”, bertujuan untuk mengetahui lingkar dada, indeks kebapuhan, dan bobot tubuh kambing muda jantan khas Kejobong dan mengkaji hubungan antara lingkar dada dan indeks kebapuhan dengan bobot tubuh kambing muda jantan khas Kejobong. Materi yang digunakanyaitu 30 ekor kambing muda jantan khas Kejobong dengan umur 7-12 bulan. Metode yang digunakan survey dengan penetapan wilayah secara stratified random sampling. Peubah yang diukur yaitu bobot tubuh, lingkar dada, lingkar paha dan panjang paha kambing muda jantan khas Kejobong.

Hasil penelitian menunjukkan rata-rata bobot tubuh, lingkar dada, indeks kebapuhan, lingkar paha dan panjang pahasebesar $23,08 \pm 3,9$ kg; $65,4 \pm 6,5$ cm; $1,1 \pm 0,1$ cm; $24,3 \pm 2,9$ cm dan $20,9 \pm 2,3$ cm. Hasil penelitian, hubungan bobot tubuh dengan lingkar dada dan indeks kebapuhan sangat nyata ($P < 0,01$) dengan persamaan uji t parsial $Y = -10,45 + 0,55X_1 - 2,42X_2$ ($R = 0,92$ dan $R^2 = 85\%$). Hasil dari analisis t partial menunjukan lingkar dada signifikan ($P < 0,05$) sementara indeks kebapuhan tidak signifikan ($P > 0,05$). Hubungan lingkar dada dengan bobot tubuh berpengaruh sangat nyata dengan persamaan linier $Y = -13,40 + 0,55X_1$ ($r = 0,91$ dan $r^2 = 83\%$), sedangkan indeks kebapuhan dengan bobot tubuh tidak berpengaruh nyata ($P > 0,05$) dengan persamaan linier $Y = 26,60 - 2,99X_2$ ($r = 0,12$ dan $r^2 = 16\%$). Kesimpulan dari penelitian yang telah dilakukan hanya lingkar dada kambing muda jantan khas Kejobong yang memiliki pengaruh signifikan dalam pendugaan bobot tubuh.

Kata Kunci :Kambing Muda Jantan Khas Kejobong, Bobot Tubuh, Indeks Kebapuhan, Lingkar Dada

SUMMARY

ALDILLA JALU SATRIO. The research entitled “Relationship of Chest Circumference and plumpness Index with Body Weight of Young KejobongGoats in District Purbalingga”. The purpose of the research was to determine chest circumference, plumpness index, and body weight of young Kejobong goats and to examine the relationship between chest circumference and plumpness index with body weight of young Kejobong goats. The material used was 30 young Kejobong goats with ages 7-12 months. The method used was survey with the determination of the area by stratified random sampling. The variables measured were body weight, chest circumference, thigh circumference and length of thigh of the young Kejobong goats.

The results showed average body weight, chest circumference, plumpness index, thigh circumference and length of thigh were 23.08 ± 3.9 kg; 65.4 ± 6.5 cm; 1.1 ± 0.1 cm; 24.3 ± 2.9 cm and 20.9 ± 2.3 cm, respectively. The results of this study showed that the relationship between body weight and chest circumference and plumpness index was significant ($P < 0.01$) with the equation $Y = -10.45 + 0.55X_1 - 2.42X_2$ ($R = 0.92$ and $R^2 = 85\%$). The result of t partial analysis showed that chest circumference was significant ($P < 0.05$), while plumpness index was not significant ($P > 0.05$). The relationship between body weight and chest circumference was very significant with linear equations $Y = -13.40 + 0.55X_1$ ($r = 0.91$ and $r^2 = 83\%$), while the regression of plumpness index with body weight was not significant ($P > 0.05$) with linear equations $Y = 26.60 - 2.99X_2$ ($r = 0.12$ and $r^2 = 16\%$). The conclusion of the research that only the chest circumference of a young Kejobong goats which has a significant influence on the estimation of body weight.

Keywords : Young Kejobong Goat, Body Weight, Chest Circumference, Plumpness Index