

RINGKASAN

BENGGAS PRAHARA HAKIM. Hubungan Ukuran Linier Tubuh dengan Bobot *Non* Karkas Luar Kambing Jawarandu Betina yang Dipotong di RPH Sokaraja. Penelitian ini bertujuan untuk mengetahui dan mempelajari hubungan antara ukuran linier tubuh dengan bobot *non* karkas luar kambing Jawarandu betina. Materi penelitian yang digunakan adalah 50 ekor ternak kambing Jawarandu betina umur 6-12 bulan. Variabel yang diamati adalah panjang badan (PB), lingkar dada (LD), tinggi pundak (TP) dan bobot *non* karkas luar (kaki bagian *metatarsus* dan *metacarpus*, kepala, dan kulit). Metode penelitian yang digunakan adalah survei dengan teknik pengambilan sampel menggunakan pendekatan *purposive sampling*. Data yang terkumpul disajikan dalam bentuk tabel kemudian dianalisis menggunakan korelasi dan regresi berganda. Hasil penelitian menunjukkan bahwa rata-rata ukuran linier tubuh PB sebesar $61,02 \pm 6,576$ cm, LD $69,30 \pm 7,172$ cm, dan TP $65,50 \pm 5,69$ cm, sedangkan bobot *non* karkas luar yaitu kaki bagian *metacarpus* dan *metatarsus* sebesar $0,804 \pm 0,275$ kg, kepala $1,767 \pm 0,449$ kg, dan kulit $1,937 \pm 0,529$ kg. Hasil analisis variansi menunjukkan bahwa panjang badan, lingkar dada, dan tinggi pundak berpengaruh nyata ($P < 0,05$) terhadap bobot kaki bagian *metacarpus* dan *metatarsus*, kepala dan kulit dengan persamaan regresi dan koefisien determinasi masing-masing adalah, bobot kaki bagian *metacarpus* dan *metatarsus* = $-1,647 + 0,013 \text{ PB} + 0,024 \text{ LD}$ dengan koefisien determinasi (r^2) = 0,721 ; kepala = $-2,206 + 0,030 \text{ LD} + 0,029 \text{ TP}$ dengan koefisien determinasi (r^2) = 0,646 ; dan kulit = $-3,400 + 0,035 \text{ PB} + 0,023 \text{ LD} + 0,025 \text{ TP}$ dengan koefisien determinasi (r^2) = 0,790. Berdasarkan hasil tersebut dapat disimpulkan bahwa panjang badan dapat digunakan untuk memprediksi bobot kaki dan bobot kulit, lingkar dada dapat digunakan untuk memprediksi bobot kaki, kepala, dan kulit, sedangkan tinggi pundak dapat digunakan untuk memprediksi bobot kepala dan kulit kambing Jawarandu betina.

Kata kunci : ukuran linier tubuh, bobot *non* karkas luar, kambing Jawarandu.

SUMMARY

BENGGAS PRAHARA HAKIM. The Relationship Between Linear Size of Body and the Weight of Outer Non Carcass of female Jawarandu Goat Slaughtered at RPH Sokaraja. The purpose of this research was to identify the linear size of body with and the weight of Outer Non Carcass of female Jawarandu Goat and to study the relationship between the linear size of body and the weight of Outer Non Carcass of Jawarandu Goat female. The research material used was 50 of Jawarandu Goat female aged 6-12 months. The variables measured were body length (BL), chest circumference (CC), high shoulder (HS) and weight of Outer Non Carcass (metatarsus and metacarpus leg, head and skin). The reaserch method used was a survey with a purposive sampling approach to collect the data. Then it was presented in a descriptive table and analyzed with correlation and double regression. The results showed that the average size of the linear body included PB respectively were 61.02 ± 6.576 cm, LD 69.30 ± 7.172 cm, and TP 65.50 ± 5.69 cm, while the non-carcass weight which consisted of leg metacarpus and metatarsus respectively were 0.804 ± 0.275 kg, head 1.767 ± 0.449 kg and skin 1.937 ± 0.529 kg. The results of analysis showed that the body length, chest circumference, and height of shoulder had significant relation ($P < 0.05$) to the weight of the legs metatarsus and metacarpus, heads and skins with the regression equation and the coefficient of determination, respectively, the weight of the legs metatarsus and metacarpus = $-1.647 + 0.013 + 0.024$ PB LD with a coefficient of determination (r^2) = 0.721 ; head = $-2.206 + 0.030 + 0.029$ LD TP with a coefficient of determination (r^2) = 0.646 ; and skin = $-3.400 + 0.035$ PB + LD $0,023 + 0,025$ TP with a coefficient of determination (r^2) = 0.790. Based on these results, the length of body can be used to predict the weight of legs and skin, chest circumference can be used to predict the weight of legs, head, and skin, while the shoulder height can be used to predict the weight of head and skin of female Jawarandu Goat.

Keywords: a linear size of the body, outer non carcass weight, Jawarandu Goat female.