

RINGKASAN

RIKA PURIKATRIANI. Hubungan Ukuran Linier Tubuh Dengan Bobot Non Karkas Luar Sapi Peranakan Simental. Penelitian ini bertujuan untuk mengetahui dan mempelajari hubungan antara ukuran linier tubuh dengan bobot non karkas luar sapi Peranakan Simental. Materi penelitian yang digunakan adalah 50 ekor ternak sapi Peranakan Simental jantan. Variabel yang diamati adalah panjang badan (PB), lebar dada (LeD), dalam dada (DD) dan bobot non karkas luar (kulit, kepala, dan kaki). Metode penelitian yang digunakan adalah survei dengan teknik pengambilan sampel menggunakan pendekatan purposive sampling. Data yang terkumpul disajikan dalam bentuk tabel deskriptif kemudian dianalisis menggunakan korelasi dan regresi berganda. Hasil menunjukkan bahwa rata-rata untuk PB $130,82 \pm 9,04$ cm, LeD $43,82 \pm 8,40$ cm, DD $66,12 \pm 5,25$ cm, bobot kulit $34,29 \pm 5,05$ kg, bobot kepala $21,72 \pm 2,985$ kg, dan bobot kaki $8,97 \pm 1,16$ kg. Hasil analisis variansi menunjukkan bahwa panjang badan, lebar dada, dan dalam dada mempunyai hubungan yang nyata ($P < 0,05$) terhadap bobot kulit, kaki, dan kepala dengan persamaan regresi dan koefisien determinasi masing-masing secara berturut-turut, yaitu kulit = $- 11,724 + 0,469 \text{ PB} + 0,250 \text{ LeD} - 0,397 \text{ DD}$ dengan koefisien determinasi (r^2) = 0,777 ; kepala = $9,248 + 0,319 \text{ LeD}$ dengan koefisien determinasi (r^2) = 0,737 ; kaki = $-3,268 + 0,081 \text{ PB}$ dengan koefisien determinasi (r^2) = 0,811. Berdasarkan hasil tersebut dapat disimpulkan bahwa panjang badan dapat digunakan untuk memprediksi bobot kulit dan bobot kaki, lebar dada dapat digunakan untuk memprediksi bobot kepala sapi Peranakan Simental.

Kata kunci : ukuran linier tubuh, bobot non karkas luar, sapi Peranakan Simental.

SUMMARY

RIKA PURIKATRIANI. The Relationship Between Linear Size of Body and the Weight of Outer Non Carcass of Simental Crossed Bulls. The purpose of this research is to identify the linear size of body with and the weight of outer non-carcass of Simental Crossed bulls and to study the relationship between the linear size of body with and the weight of outer non-carcass of Simental Crossed bulls. The reaserch material was 50 of Simental Crossed bulls. The variables measured were length of body (LoB), width of chest (WoC), depth of chest (DoC) and weight of outer non carcass (skin, head and legs). The reaserch method used a purposive sampling approach to collect the data. Which then was presented in a descriptive table and analyzed with correlation and double regression. The results showed that quantitative characteristics of Simental Crossed bulls for LoB was 130.82 ± 9.04 cm, WoC was $43.82 \pm 8,40$ cm, DoC was 66.12 ± 5.25 cm, skin weight was 34.29 ± 5.05 kg, head weight was 21.72 ± 2.985 kg, and legs weight was 8.97 ± 1.16 kg. The results of the analysis showed that the body length, the chest width, and the chest depth have a significant relation ($P < 0.05$) to the weight of the skin, legs, and head with the regression equation and coefficients determination respectively , skin = $- 11,724 + 0,469 \text{ LoB} + 0,250 \text{ WoC} - 0,397 \text{ DoC}$ with coefficients determination (r^2) = 0,777 ; head = $9,248 + 0,319 \text{ WoC}$ with coefficients determination (r^2) = 0,737 ; legs = $-3,268 + 0,081 \text{ LoB}$ with coefficients determination (r^2) = 0,811 . Based on these results, it body length can be used to predict the weight of skin and legs, and the chest width can be used to predict weight of head of Simental Crossed bulls.

Keyword : A linear size of the body, Outer Non Carcass Weight, Simental Crossed Bulls.