

## PERBANDINGAN MORFOMETRIK CEMPE KAMBING PERANAKAN AFRICAN DWARF DAN PERANAKAN ETTAWA HINGGA UMUR SATU BULAN

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### INTISARI

Penelitian ini bertujuan untuk mengetahui perbandingan ukuran dan laju pertambahan morfometrik cempe kambing Peranakan African Dwarf (PAD) dan Peranakan Ettawa (PE) hingga umur satu bulan setelah kelahiran. Penelitian ini dilaksanakan pada bulan Februari 2022 sampai Mei 2022. Penelitian ini dilaksanakan di Garage Farm, Cebongan, Sleman. yang menggunakan 6 ekor cempe kambing PAD dan 6 ekor cempe kambing PE umur 0 hingga 30 hari sebagai sampel. Parameter yang diukur meliputi morfometrik bagian kepala (panjang kepala, lebar kepala, tinggi kepala), dan morfometrik bagian badan (lebar dada, lingkaran dada, dalam dada, tinggi pundak, panjang badan, lingkaran kaki). Data penelitian yang diperoleh dianalisis menggunakan uji *Independent Sample T-Test*. Hasil dari pengukuran morfometrik bagian laju pertambahan kepala kambing PAD pada panjang kepala  $0,31 \pm 0,10$  cm, lebar kepala  $0,31 \pm 0,07$  cm, tinggi kepala  $0,20 \pm 0,05$  cm, sedangkan pada kambing PE memiliki nilai pada panjang kepala  $0,30 \pm 0,12$  cm, lebar kepala  $0,26 \pm 0,04$  cm, dan tinggi kepala  $0,22 \pm 0,06$  cm. Laju pertambahan morfometrik kepala cempe kambing PAD dan PE tidak berbeda nyata ( $P > 0,05$ ). Hasil dari pengukuran morfometrik bagian laju pertambahan lebar dada  $0,42 \pm 0,12$  cm, dalam dada  $0,45 \pm 0,27$  cm, tinggi pundak  $0,95 \pm 0,27$  cm, lingkaran dada  $1,21 \pm 0,16$  cm, panjang badan  $0,99 \pm 0,28$  cm, dan lingkaran kaki  $0,13 \pm 0,06$  cm, sedangkan pada kambing PE memiliki nilai pada lebar dada  $0,62 \pm 0,16$  cm, dalam dada  $0,75 \pm 0,18$  cm, tinggi pundak  $1,75 \pm 0,26$  cm, lingkaran dada  $2,07 \pm 0,47$  cm, panjang badan  $1,58 \pm 0,42$  cm, dan lingkaran kaki  $0,26 \pm 0,07$  cm. Laju pertambahan morfometrik badan cempe kambing PAD dan PE berbeda nyata ( $P < 0,05$ ). Berdasarkan hasil penelitian dapat disimpulkan bahwa laju pertumbuhan PAD dan PE berbeda secara nyata pada bagian badan dan tidak berbeda secara nyata pada bagian kepala. Pertumbuhan cempe kambing PE pada usia 1 bulan memiliki pertumbuhan yang lebih cepat dari pada cempe kambing PAD.

Kata Kunci : Morfometrik, cempe, kambing peranakan african dwarf, kambing peranakan ettawa, usia Satu Bulan

## MORPHOMETRY COMPARISON OF AFRICAN DWARF CROSSBREED AND ETTAWA CROSSBREED KIDS UNTIL ONE MONTH

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### ABSTRACT

This research aims to determine the comparison of size and morphometric growth rate of African Dwarf (PAD) and Ettawa (PE) crossbred goat kids up to one month of age. The study was conducted from February 2022 to May 2022 at Garage Farm, Cebongan, Sleman. A total of 6 PAD goat kids and 6 PE goat kids aged 0 to 30 days were used as samples. The measured parameters included morphometrics of the head (head length, head width, head height) and morphometrics of the body (chest width, chest circumference, chest depth, withers height, body length, leg circumference). The research data obtained were analyzed using Independent Sample T-Test. The results of the morphometric measurements showed that the growth rate of PAD goat kids in head length was  $0.31 \pm 0.10$  cm, head width was  $0.31 \pm 0.07$  cm, head height was  $0.20 \pm 0.05$  cm, while the values for PE goats were  $0.30 \pm 0.12$  cm for head length,  $0.26 \pm 0.04$  cm for head width, and  $0.22 \pm 0.06$  cm for head height. The morphometric growth rate of the head in PAD and PE goat kids did not show significant differences ( $P > 0.05$ ). The measurements also revealed that the growth rate of chest width was  $0.42 \pm 0.12$  cm, chest depth was  $0.45 \pm 0.27$  cm, withers height was  $0.95 \pm 0.27$  cm, chest circumference was  $1.21 \pm 0.16$  cm, body length was  $0.99 \pm 0.28$  cm, and leg circumference was  $0.13 \pm 0.06$  cm in PAD goat kids, while the values for PE goats were  $0.62 \pm 0.16$  cm for chest width,  $0.75 \pm 0.18$  cm for chest depth,  $1.75 \pm 0.26$  cm for withers height,  $2.07 \pm 0.47$  cm for chest circumference,  $1.58 \pm 0.42$  cm for body length, and  $0.26 \pm 0.07$  cm for leg circumference. The morphometric growth rate of the body in PAD and PE goat kids showed significant differences ( $P < 0.05$ ). Based on the research findings, it can be concluded that the growth rate of PAD and PE goat kids significantly differs in the body region, while there is no significant difference in the head region. The PE goat kids showed faster growth than the PAD goat kids at one month of age.

Keywords : Morphometrics, kids, african dwarf crossbreed, ettawa crossbreed, pre-weaning.