

## **ESTIMASI NILAI RIPITABILITAS BERAT BADAN KAMBING PERANAKAN ETTAWA DI BALAI PEMBIBITAN TERNAK UNGGUL DAN HIJAUAN PAKAN TERNAK PELAIHARI, KALIMANTAN SELATAN**

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### **INTISARI**

Salah satu jenis kambing yang banyak dikembangkan di Indonesia adalah kambing Peranakan Ettawa (PE). Nilai pengulangan suatu sifat pada kambing Peranakan Ettawa (PE) dapat diketahui dengan menghitung nilai ripitabilitas sifat kuantitatifnya. Penelitian ini bertujuan untuk mengestimasi nilai ripitabilitas berat lahir, berat sapih, dan berat umur satu tahun di Balai Pembibitan Ternak Unggul dan Hijauan Pakan Ternak Pelaihari, Kalimantan Selatan. Materi penelitian yang digunakan adalah catatan data berat lahir, berat sapih, dan berat umur satu tahun pada tahun 2015 dan 2016. Data lain sebagai penunjang adalah tanggal lahir, tanggal sapih, tanggal penimbangan berat badan umur satu tahun, dan silsilah. Nilai ripitabilitas diestimasi menggunakan metode korelasi antar kelas dan dalam kelas. Hasil penelitian menunjukkan bahwa nilai ripitabilitas berat lahir, berat sapih, dan berat umur satu tahun yang dianalisis menggunakan metode korelasi antar kelas berturut-turut adalah  $0,31 \pm 0,08$ ;  $0,21 \pm 0,11$ ; dan  $0,41 \pm 0,14$ . Nilai ripitabilitas berat lahir, berat sapih, dan berat umur satu tahun yang dianalisis menggunakan metode korelasi dalam kelas berturut-turut adalah  $0,08 \pm 0,01$ ;  $0,03 \pm 0,01$ ; dan  $0,08 \pm 0,04$ . Hasil penelitian menunjukkan bahwa nilai ripitabilitas termasuk kategori rendah, sedang, dan tinggi.

(Kata kunci : Ripitabilitas, Kambing Peranakan Ettawa, Berat Lahir, Berat Sapih, Berat Umur Satu Tahun)

## REPEATABILITY ESTIMATES FOR BODY WEIGHT IN PERANAKAN ETTAWA GOATS REARED IN LIVESTOCK BREEDING AND FORAGE CENTER OF EXCELLENCE OF PELAIHARI, SOUTH BORNEO

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### ABSTRACT

Ettawa Grade Goat (Peranakan Ettawa, PE) is one the most distributed local goat breeds in Indonesia. Because of its important role, determining the proportion of the variation attributed to variation among individuals, known as repeatability, is important for the repeated traits. The aim of this study was to estimate repeatability of some economic traits such as birth weight, weaning weight, and yearling weight in PE goats. For that, data of the mentioned traits in PE goats, recorded during 2015 to 2016, were collected from the Livestock Breeding and Forage Center of Excellence (BPTU-HPT) of Pelaihari, South Borneo. Also, we collected supplementary data such as birth date, weaning date, weighted-yearling date as well as pedigree record. Estimates of repeatability were determined using intraclass and interclass correlation coefficient methods. In this study, using interclass correlation coefficient method, repeatability estimates of  $0.31 \pm 0.08$ ,  $0.21 \pm 0.11$ , and  $0.41 \pm 0.14$  were obtained for birth weight, weaning weight, and yearling weight, respectively. Meanwhile, estimates of repeatability using intraclass correlation coefficient method were obtained to be  $0.08 \pm 0.01$ ,  $0.03 \pm 0.01$ , and  $0.08 \pm 0.04$  for birth weight, weaning weight, and yearling weight, respectively. In conclusion, the overall estimated repeatability was found to be in low to high level.

(Keywords: Repeatability, Ettawa Grade Goat, Birth Weight, Weaning Weight, Yearling Weight)