

**ESTIMASI NILAI HERITABILITAS BOBOT LAHIR DAN BOBOT SAPIH
DOMBA GARUT DI UNIT PELAKSANA TEKNIS DINAS BALAI
PENGEMBANGAN PERBIBITAN TERNAK DOMBA
MARGAWATI GARUT JAWA BARAT**

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INTISARI

Tujuan dari penelitian ini adalah untuk mengetahui nilai heritabilitas bobot lahir dan bobot sapih domba Garut di Unit Pelaksana Teknis Dinas Balai Pengembangan Perbibitan Ternak Domba Margawati, Garut, Jawa Barat. Penelitian ini telah dilakukan pada bulan Agustus sampai Oktober 2014. Data bobot sapih yang digunakan berasal dari catatan (*recording*) selama tiga tahun terakhir yaitu 2012 sampai 2014. Data perhitungan berasal dari silsilah 55 pejantan, 458 induk dan 579 keturunan. Estimasi heritabilitas dilakukan dengan menggunakan data saudara tiri seapak (*Paternal half-sib correlation*) dan pemisahan komponen ragam untuk menduga nilai heritabilitas dilakukan dengan menggunakan Rancangan Acak Lengkap pola searah (*Completely Randomized Design One-Way Classification*). Hasil estimasi nilai heritabilitas bobot lahir dan bobot sapih yang didapatkan yaitu masing-masing sebesar $0,24 \pm 0,06$ dan $0,45 \pm 0,08$. Hasil penelitian ini menunjukkan bahwa nilai heritabilitas bobot lahir dan bobot sapih domba Garut di Unit Pelaksana Teknis Dinas Balai Pengembangan Perbibitan Ternak Domba Margawati, Garut, Jawa Barat termasuk dalam kategori sedang dan tinggi.

(Kata Kunci : Domba Garut, Heritabilitas, Bobot Lahir, Bobot Sapih)

HERITABILITY ESTIMATION OF BIRTH WEIGHT AND WEANING WEIGHT GARUT SHEEP IN TECHNICAL IMPLEMENTATION UNIT DEVELOPMENT CENTER FOR LIVESTOCK BREEDING IN MARGAWATI GARUT IN WEST JAVA

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ABSTRACT

This research aimed to determine the heritability of birth weight and weaning weight in the technical services unit of Garut sheep breeding center in Margawati, Garut, West Java. This research was done from August to October 2014. The data of birth weight and weaning weight were collected from the recording database in the years 2012-2014. Data derived from the calculation of 55 rams, 458 ewes and 579 descent. Estimated of heritability for birth weight and weaning weight used paternal half-sib correlation. Variance components of this research was separated using completely randomized design one-way classification. The results of heritability estimation of birth weight and weaning weight were obtained respectively of 0.24 ± 0.06 and 0.45 ± 0.08 . The results of this research showed that the heritability of birth weight and weaning weight of Garut sheep in technical implementation unit development center for livestock breeding Margawati, Garut, West Java were included in the category of medium and high.

(Keywords: Sheep, Heritability, Birth weight, Weaning weight)