

ESTIMASI PARAMETER GENETIK SIFAT-SIFAT PERTUMBUHAN
KAMBING PERANAKAN ETAWAH DI UNIT PELAKSANA
TEKNIS TERNAK SINGOSARI, MALANG
JAWA TIMUR

Renita Syafmi
93/090770/PT/02920

INTISARI

Penelitian ini ditaksakan dengan tujuan untuk mendapatkan gambaran tentang parameter genetik kambing Peranakan Etawah di Unit Pelaksana Teknis Singosari, Malang. Data yang diteliti berupa catatan bobot lahir, bobot sapih, dan bobot setahunan kambing Peranakan Etawah sebanyak 171 ekor anak dari 8 ekor pejantan dan 32 ekor betina. Heritabilitas ditaksir berdasarkan metode korelasi saudara tiri seapak. Rিপিতাভিতা ditaksir dengan menggunakan metode korelasi antar kelas, dan untuk korelasi genetik digunakan nilai ragam dan peragam data saudara tiri seapak. Hasil penelitian menunjukkan bahwa heritabilitas bobot lahir, bobot sapih, dan bobot setahunan berturut-turut adalah 0,11, 0,31, dan 0,62. Rিপিতাভিতা bobot lahir, bobot sapih, dan bobot setahunan berturut-turut adalah 0,41, 0,45, dan 0,51. Korelasi genetik antara bobot lahir dengan bobot sapih, bobot lahir dengan bobot setahunan, dan bobot sapih dengan bobot setahunan berturut-turut adalah 0,29, 0,33, dan 0,75. Selanjutnya dapat disimpulkan bahwa parameter genetik yang meliputi nilai-nilai heritabilitas, rিপিতাভিতা, dan korelasi genetik sifat-sifat produksi kambing Peranakan Etawah yang dipelihara di Unit Pelaksana Teknis (UPT) ternak singosari, Malang pada umumnya menunjukkan nilai yang positif dari rendah sampai tinggi.

(Kata kunci : Bobot badan, Heritabilitas, Rিপিতাভিতা, Korelasi Genetik, Kambing Peranakan Etawah)

GENETIC PARAMETERS GROWTH CHARACTERISTICS
OF ETAWAH GRADE GOATS IN GOAT BREEDING
CENTER AT SINGOSARI, EAST JAVA

Renita Syafmi
93/090770/PT/02920

ABSTRACT

Data was collected from Goat Breeding Center at Singosari, Malang to study genetic parameters of growth characteristics of Etawah Grade Goats. The number of observation for birth weight, weaning weight, and yearling weight from eight bucks were 171 kids and 32 does, respectively. Heritability and repeatability of production traits were estimated based on Partenal Half-Sib correlation and intraclass correlation, respectively. The genetic correlation among production traits were estimated based on variance and covariance components from partenal half-sib correlation. The result indicated that estimated heritability of birth weight, weaning weight, and yearling weight were 0,11, 0,31, and 0,62, respectively. Repeatability of birth weight, weaning weight, and yearling weight were 0,41, 0,45 and 0,51, respectively. The genetic correlation of birth weight and weaning weight, birth weight and yearling weight, and weaning weight and yearling weight were 0,29, 0,33, and 0,75, respectively. It was concluded that genetic parameters of growth of Etawah Grade Goats in Goat Breeding Center, at Singosari, Malang were generally low until high and positive

(key word : Traits Weight, Heritability, Repeatability, Genetic Correlation,
Etawah Cross Goats)