

Estimating Genetic Parameter of Saanen Goat Production Characteristics Using Paternal Half Sib Correlation

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Abstract	<p>This research was aimed to investigate heritability score (h^2) of milk yield, kid birth weight, and milk quality that included density, fat content, protein, lactose, water and non-fat dry matter of Saanen goat according to the production record of first-lactating individual in the Centre of Pedigree Breeding and Cattle Forage Baturraden. The materials for this research were 180 Saanen does with a first-lactating record. The estimated genetic parameter was heritability score using a paternal half-sib correlation method. Result showed that the heritability of milk yield, kid birth weight, density, fat content, protein, lactose, water and NFDM was $0,32 \pm 0,23$; $0,25 \pm 0,26$; $0,15 \pm 0,17$; $0,11 \pm 0,16$; $0,12 \pm 0,16$; $0,10 \pm 0,14$; $0,10 \pm 0,16$ and $0,11 \pm 0,16$, respectively. A high h^2 was obtained from heritability score of milk yield, and a moderate h^2 was from kid birth weight and milk quality. In conclusion, the h^2 score of milk yield of Saanen goats was relatively high, while the h^2 score of kid birth weight and milk quality was relatively moderate.</p>
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