Does Productivity Index of Boerawa Does and Etawa Grade Does Fed by Traditional and Rational Foodstuff

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ABSTRACT

Boerawa goat is crossbreed between Boer buck and Ettawa Grade does. This research was conducted to investigate: (a) interaction between goat breed and kind of foodstuff to does productivity index of Boerawa does and Etawa Grade does, (b) the effect of goat breed on does productivity index of Boerawa does and Etawa Grade does, (c) the effect of kind of foodstuff on does productivity index of Boerawa does and Etawa Grade does based on their kid weaning weight. This research was conducted with experimental method using 20 Boerawa does and 20 Etawa grade does having two-three times of kidding period. Ten Boerawa does and 10 Etawa grade does got rational foodstuff (60% forage and 40% concentrate), and 10 Boerawa does and 10 Etawa grade does got traditional foodstuff (100% forage). Factorial (2x2) of completely randomized design with ten replications was used in this study. The result showed that there was no interaction between goat breed and kind of foodstuff to does productivity index of Boerawa does and Etawa Grade does. The result indicated also that does productivity index (40,900 kg) of Boerawa does higher (P<0,01) than does productivity index (30,996 kg) of Etawa Grade does. The result indicated also that does productivity index (41,298 kg) of goat got rational foodstuff higher (P<0,01) than does productivity index (30,598 kg) of goat got traditional foodstuff. It could be concluded that Boerawa does were more productive than Etawa Grade does.

*Key word***:** *weaning weight, Boerawa does and Etawa Grade does, does productivity index*

INTRODUCTION

Genetic improvement is an integral part of many goat development programmes in the tropics, where breeding policies mostly aim to upgrade local goats by crossbreeding with, either temperate or tropical exotic breeds. The Boer goat is a famous meat goat breed in the world. It is well-known for fast growth, high reproductive, strong adaptability, and excellent meat-purpose body conformation. Since 2001, the Lampung Provincial Government has introduced some Boer goats from Australia. The Goats were reared to be collected their semen. The semen then be processed to be frozen semen that will be inseminated to local goat of farmers in some villages, one of them was Campang Village, Gisting District, Tanggamus Regency, Lampung. In the village, the farmers had united in some groups.

Crossbreed between Boer buck and Etawa grade does was namely Boerawa goat. Based on our observation, Boerawa crossbreed has meat type characteristic. Population of Boerawa goat increased significantly in Lampung, although the farmers fed the goats with conventional ration i.e. forage without concentrate ration. The farmers like very much to the performance of Boerawa goat. Boerawa goat grew faster than Etawa grade goat. Service per conception of both goat were not different significantly, it was about two. The first kidding of Both Boerawa and Etawa grade goat were single type, but for the following kidding it would be twin or triplet. Besides that, there is not unpleasant odor of Boerawa goat body like in Kacang or Etawa grade goat, thus farmers like Boerawa goat very much.

Population of Boerawa goat increased significantly in Lampung, although the farmers fed the goats with conventional ration i.e. forage without concentrate ration. Nevertheles, until now there is no information on evaluation of this crossbreed. Crossbreed evaluation on its productivity is very important to decide the development of the crossbreed (Basuki *et al*., 1998). Crossbreed productivity can be evaluated by computing the value of does productivity index (DPI). This value describes kid body weight production produced by a doe or group of