ABSTRACT

Reproduction Performance of Local Sheep and Production Performance of Lambs Given Flushing Ration With Various Energy Content

Ismoyo, W., K. B. Satoto and K. G. Wiryawan

This research aims to compare the reproduction and production performance of local ewes and the offspring productivity from ewes given different energy content of flushing feed. Diets given were native grass and concentrate with 30-40 : 60-70 ratio. The diets were composed based on various energy content. This research used Completely Randomized Design (CRD) with three diets treatments with various energy content. Each treatment was given to four sheep as replicates. The first treatment was diet with 65% of total digestible nutrient (TDN) and 14% crude protein, the second treatment was diet with 70% TDN and 14% crude protein and the third treatment was diet with 75% TDN and 14%. The result showed that the energy content had a significant impact on total dry matter consumption of grass and concentrate. It also influenced average daily gain and diet efficiency during pregnancy. Dry matter consumption, average daily gain, and diet efficiency during lactation, number of fetus and number of offspring, and birth weight and wean weight were not influenced by diet’s energy. The performance of twin offsprings was better than single offspring. The result of correlation between birth weight and wean weight is 0.85 and the correlation of milk production on day 0-28 with offspring weight day-28 is 0.97. It could be concluded that various diet’s energy do not influence ewe’s production and reproduction performance and also offspring production performance.

Keywords: local sheep, production, reproduction, energy