

KONSUMSI DAN KECERNAAN NUTRIEN RANSUM YANG MENDAPATKAN SUPLEMEN SUMBER ENERGI PADA KAMBING PERANAKAN ETTAWA

Firman Hananto
10/297032/PT/05802

INTISARI

Penelitian ini bertujuan untuk mengetahui konsumsi dan pencernaan nutrisi ransum yang mendapatkan pakan tambahan sumber energi pada kambing Peranakan Ettawa (PE). Penelitian ini dilaksanakan pada bulan Oktober 2013 sampai dengan Juni 2015 di kandang milik kelompok Wanita Tani Gama Turgo Lestari di Desa Turgo, Sleman, Yogyakarta. Materi yang digunakan adalah kambing Peranakan Ettawa sebanyak 10 ekor, yang dibagi menjadi 2 kelompok yaitu kelompok kontrol (P0) dengan perlakuan pakan hijauan sepekerjaan peternak dan kelompok perlakuan (P1) dengan hijauan sepekerjaan peternak ditambah suplemen sumber energi, dengan ulangan 5 ekor tiap perlakuan. Variabel yang diamati dalam penelitian ini adalah komposisi kimia pakan, konsumsi nutrisi, nutrisi tercerna, dan koefisien cerna. Data yang diperoleh dianalisis dengan analisis T-test. Hasil penelitian menunjukkan bahwa suplementasi konsentrat pakan sumber energi meningkatkan konsumsi nutrisi BK, BO, LK, PK, BETN dan TDN ($P < 0,05$), sedangkan konsumsi SK berbeda tidak nyata. Hasil analisis juga menunjukkan peningkatan pencernaan nutrisi, BK, BO, LK, BETN, dan TDN ($P < 0,05$), sedangkan terhadap SK dan PK tidak berbeda nyata. Pertambahan bobot badan harian dan konversi pakan hasil statistik tidak berbeda nyata, namun konversi cenderung meningkat. Berdasarkan penelitian ini, disimpulkan bahwa penambahan suplementasi energi pada pakan basal sepekerjaan peternak dapat meningkatkan konsumsi dan pencernaan nutrisi, namun pakan belum efisien.

Kata Kunci: Kambing PE, Suplementasi, Komposisi kimia, Konsumsi nutrisi, Pencernaan *in vivo*.

**NUTRIENT CONSUMPTION AND DIGESTIBILITY RATION WHICH
WAS ADDED BY ENERGY SOURCE IN CROSSBREED
ETTAWA GOAT**

Firman Hananto
10/297032/PT/05802

ABSTRACT

The study purpose is to analyse the consumption and digestibility of nutrient ration in crossbreed Ettawa goat which was added by energy source. The research was started on October 2013 to June 2015 at Wanita Tani Gama Turgo Lestari farm in Turgo village, Sleman, Yogyakarta. Research materials used 10 crossbreed Ettawa goats, which was divided into two groups namely control group (P0) and treatment group (P1). Control group (P0) was fed with forage by farmer discretion both in its quantity and quality, whereas treatment group (P1) was fed with forage by farmer discretion both in its quantity and quality, and was added with energy source and repetition for each treated five goat. Variables which were observed in the research namely feed chemical composition, nutrient consumption, digestible nutrient and digestion coefficient. The obtained data was analyzed with T-test from Statistical Product and Service Solution software. The research result showed that feed concentrate supplementation with energy source could increase nutrient consumption on DM, OM, EE, CP, NFE, and TDN consumption ($P < 0,05$), meanwhile CF were not significantly different. The result also showed increase nutrient digestibility on DM, OM, EE, NFE, and TDN ($P < 0,05$), meanwhile CF and CP were not significantly different. Based on this research, it can be concluded that energy supplement addition in farmer's basal feed can increase the nutrient consumption and digestibility. However the feed efficiency is not reached yet.

Keywords : Crossbreed Ettawa goat, Supplementation, Chemical composition, Nutrient consumption, In vivo digestibility.