

PENGARUH SUBSTITUSI KETELA POHON DALAM KOSENTRAT SUMBER ENERGI TERHADAP PERTUMBUHAN SAPI JAWA-BREBES

Angger M. Ghozwan Hanif
15/379744/PT/06941

INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh substitusi ketela pohon terhadap kosentrat sumber energi komersial pada pakan dasar jerami terhadap pertumbuhan sapi Jawa-Brebres (Jabres) jantan. Penelitian menggunakan 12 ekor sapi Jabres jantan umur sekitar 1,5 tahun dengan bobot badan $204,87 \pm 53,28$ Kg. Sapi dibagi secara acak menjadi 2 kelompok yaitu kelompok kontrol dan kelompok perlakuan. Kelompok kontrol diberi pakan jerami padi dan kosentrat sumber energi dengan perbandingan 40:60 %BK. Sedangkan kelompok perlakuan diberi pakan jerami padi, kosentrat sumber energi dan ketela pohon dengan perbandingan 40:48:12 %BK. Pemberian pakan dilakukan pada pukul 06.00 dan 16.00 WIB. Sapi dipelihara di dalam kandang tambat selama 98 hari termasuk 84 hari pengambilan data. Variabel yang diamati meliputi konsumsi bahan kering (BK), protein kasar (PK), *total digestible nutrient* (TDN), *average daily gain* (ADG), *feed conversion ratio* (FCR) dan, *feed cost per gain* (FC/G). Data yang diperoleh dianalisis variansi pola searah. Substitusi ketela pohon sebanyak 12% dalam ransum menurunkan konsumsi PK dan meningkatkan konsumsi TDN per berat badan ($P < 0,05$). Konsumsi BK, PK dan TDN kelompok kontrol dan perlakuan berturut-turut masing-masing adalah $3,36 \pm 0,09$ dan $3,26 \pm 0,22\%BB$, $0,26 \pm 0,01$ dan $0,22 \pm 0,01\%BB$ serta, $01,58 \pm 0,04$ dan $1,76 \pm 0,12\%BB$. Substitusi ketela pohon sebanyak 12% dalam ransum tidak berpengaruh terhadap kinerja pertumbuhan sapi jabres. Kinerja pertumbuhan ADG, FCR dan FC/G kelompok kontrol dan perlakuan berturut-turut masing-masing adalah $0,73 \pm 0,28$ dan $0,62 \pm 0,23$ kg/hari, $15,74 \pm 6,04$ dan $23,12 \pm 21,84$ serta, $-Rp23918,09 \pm 9186,2$ dan $-Rp34586,41 + 32674,72/Kg$. Disimpulkan bahwa substitusi ketela pohon 12% dalam kosentrat sumber energi komersial pada pakan dasar jerami padi menurunkan konsumsi PK dan meningkatkan konsumsi TDN tetapi tidak mempengaruhi pertumbuhan sapi Jabres.

Kata kunci : Sapi Jawa Brebes, Ketela pohon dan kinerja pertumbuhan.

EFFECT OF CASSAVA SUBSTITUTION IN COMERCIAL ENERGY SOURCES CONCENTRATE AT RICE STRAW BASED DIET ON GROWTH PERFORMANCE OF JAVA-BREBES BULL

Angger M. Ghozwan Hanif
15/379744/PT/06941

ABSTRACT

This study was aimed to observe the effect of cassava substitution in commercial concentrate at rice straw based diet on growth performance of Java-Brebes (Jabres) Bulls. Twelve 1.5 years old of Jabres Bulls were used in this study. Their initial weight was 204.87 ± 53.28 Kg. Animals were divided randomly into two groups, those were treatment and control groups. The treatment group was fed by rice straw, commercial concentrate and cassava at 40:48:12 %DM ratio, while control group was fed by rice straw and commercial concentrate at 40:60 %DM ratio. Feeding was done at 06.00 and 16.00 WIB. Animals were raised in stole individually for 98 days including 84 days of data collection. The variable observed included dry matter (DM), crude protein (CP) and total digestible nutrient (TDN) intakes, average daily gain (ADG), feed conversion ratio (FCR) and feed cost per gain (FC/G). The data collected was analyzed using one way design. Cassava substitution in commercial concentrate at the rice straw based diet decreases CP consumption and increases TDN consumption ($P < 0,05$). The DM, CP, and TDN intakes of control and treatment groups were 3.36 ± 0.09 and 3.26 ± 0.22 %BW, 0.26 ± 0.01 and 0.22 ± 0.01 %BW, and 01.58 ± 0.04 and 1.76 ± 0.12 %BW, respectively. Cassava substitution in commercial concentrate at the rice straw base diet not affect growth performance of Jabres Bull. The ADG, FCR and FC/G of treatment and control groups were 0.73 ± 0.28 and 0.62 ± 0.23 kg/day, 15.74 ± 6.04 and 23.12 ± 21.84 , and 23918.09 ± 9186.2 and 34586.41 ± 32674.72 IDR/Kg. It is concluded that cassava substitution 12% in commercial concentrate at the rice straw based diet decreases CP consumption and increases TDN consumption but did not affect the growth performance of Jabres Bulls.

Keywords: Java Brebes Bull, Cassava and growth performance.