

## **PERTAMBAHAN BERAT BADAN HARIAN KAMBING BLIGON JANTAN MUDA YANG MENDAPAT PAKAN KONSENTRAT DENGAN LEVEL PROTEIN YANG BERBEDA**

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### **INTISARI**

Penelitian ini bertujuan untuk mengetahui pertambahan berat badan harian kambing Bligon jantan muda yang mendapat pakan konsentrat dengan level protein yang berbeda. Penelitian dilaksanakan pada bulan Juli sampai September 2007 di Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta. Materi penelitian yang digunakan adalah 20 ekor kambing Bligon jantan umur 10-12 bulan dengan berat awal  $19,08 \pm 2,20$  kg secara acak dibagi dalam 4 kelompok perlakuan, setiap kelompok perlakuan terdiri dari 5 ekor kambing. Pakan yang digunakan dalam penelitian ini adalah ransum pakan dengan level protein kasar yang berbeda, yaitu : R<sub>0</sub> dengan PK 9,27%, R<sub>1</sub> 11,59%, R<sub>2</sub> 14,54%, dan R<sub>3</sub> 16,49%. Variabel yang diamati meliputi konsumsi pakan, pertambahan berat badan harian, dan konversi pakan. Data dianalisis dengan *Analisis of Varians* (ANOVA) dengan menggunakan Rancangan Acak Lengkap (RAL) Pola Searah. Rerata hasil konsumsi BK (g/kg BB<sup>0,75</sup>) R<sub>0</sub>  $104,19 \pm 6,57$ , R<sub>1</sub>  $99,86 \pm 10,90$ , R<sub>2</sub>  $95,97 \pm 4,40$ , dan R<sub>3</sub>  $94,98 \pm 9,91$  tidak berbeda nyata. Rerata hasil PK (g/kg BB<sup>0,75</sup>) R<sub>0</sub>  $12,72 \pm 1,09$ , R<sub>1</sub>  $13,19 \pm 1,65$ , R<sub>2</sub>  $14,10 \pm 0,65$ , dan R<sub>3</sub>  $14,96 \pm 1,54$  tidak berbeda nyata. Rerata hasil PBBH (g/ekor/hari) R<sub>0</sub>  $87,50 \pm 34,68$ , R<sub>1</sub>  $98,44 \pm 9,61$ , R<sub>2</sub>  $87,50 \pm 26,15$ , dan R<sub>3</sub>  $114,06 \pm 16,20$  tidak berbeda nyata. Rerata hasil konversi pakan R<sub>0</sub>  $14,99 \pm 10,10$ , R<sub>1</sub>  $10,99 \pm 2,25$ , R<sub>2</sub>  $11,81 \pm 3,53$ , dan R<sub>3</sub>  $8,36 \pm 0,59$  tidak berbeda nyata. Berdasarkan hasil penelitian dapat disimpulkan bahwa pertambahan berat badan harian kambing Bligon jantan muda yang mendapat pakan konsentrat dengan level protein yang berbeda antara 9,27% sampai 16,49% tidak berbeda.

Kata kunci: Kambing Bligon, Level protein, Konsumsi pakan, Pertambahan berat badan harian, dan Konversi pakan.

## **THE WEIGHT GAIN OF MALE YEARLING BLIGON GOATS WHICH FEED CONCENTRATE WITH DIFFERENT PROTEIN LEVEL**

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### **ABSTRACT**

The aim of this research was to observe the weight gain of male yearling Bligon goats with feed different protein level of concentrat. The research conducted from Juli up to September 2007 at Animal Science Faculty of Gadjah Mada, Yogyakarta. This research used 20 male Bligon goats about 10 to 12 months old and weight  $19.08 \pm 2.20$  kg. The animal devided into 4 different groups of treatment contained of 5 goats each. This research used different diet consisting of different crude protein (CP), which was  $R_0$  9.27%,  $R_1$  11.59%,  $R_2$  14.54%, and  $R_3$  16.49%. Data measured were feed consumption, average daily gain (ADG), and feed conversion. The data were analized by Analyzed of Varians (ANOVA). The results indicated that the consumption of dry matter (DM) ( $\text{g/kg BB}^{0.75}$ ) was  $R_0$   $104.19 \pm 6.57$ ,  $R_1$   $99.86 \pm 10.90$ ,  $R_2$   $95.97 \pm 4.40$ , and  $R_3$   $94.98 \pm 9.91$  gave no significant different, of CP ( $\text{g/kg BB}^{0.75}$ )  $R_0$   $12.72 \pm 1.09$ ,  $R_1$   $13.19 \pm 1.65$ ,  $R_2$   $14.10 \pm 0.65$ , and  $R_3$   $14.96 \pm 1.54$  gave no signifacant different. The results indicated of ADG ( $\text{g/h/day}$ )  $R_0$   $87.50 \pm 34.68$ ,  $R_1$   $98.44 \pm 9.61$ ,  $R_2$   $87.50 \pm 26.15$ , and  $R_3$   $114.06 \pm 16.20$  gave no significant different. The results indicated of feed conversion  $R_0$   $14.99 \pm 10.10$ ,  $R_1$   $10.99 \pm 2.25$ ,  $R_2$   $11.81 \pm 3.53$ , and  $R_3$   $8.36 \pm 0.59$  gave no significant different. From the result, it can be concluded the weight gain of male yearling Bligon goats which feed concentrate with different protein level of feed consumsion between 9.27% until 16.49% gave no different.

Key words: Bligon Goats, Protein level, Feed consumption, Average daily gain, and Feed conversion.