

**PERTAMBAHAN BOBOT BADAN SAPI PERANAKAN ONGOLE
YANG DIBERI PAKAN LENGKAP (COMPLETE FEED)
DENGAN SUPLEMENTASI UNDEGRADED PROTEIN**

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01/15148/EPT/00013

2004

INTISARI

Penelitian ini bertujuan untuk mengetahui pertambahan bobot badan sapi Peranakan Ongole (PO) yang diberi pakan lengkap (*complete feed*) dengan suplementasi *undegraded protein*. Delapan ekor sapi PO jantan dibagi secara acak dalam dua kelompok yakni kelompok perlakuan (K I) dan kelompok kontrol (K II), masing-masing kelompok terdiri dari empat ekor sapi PO jantan. Bobot badan awal ternak terlebih dahulu diuji dengan menggunakan uji homogenitas ragam (*Bartlett test*). Data konsumsi bahan kering (BK), protein kasar (PK), *total digestible nutrients* (TDN), pertambahan bobot badan harian (PBBH) dan konversi pakan dianalisis statistik menggunakan uji-t. Pemeliharaan dilakukan selama 13 minggu, 2 minggu untuk masa adaptasi dan 11 minggu perlakuan pakan. Pemberian pakan dilakukan sebanyak dua kali sehari yaitu pada pukul 08.00 wib dan 16.00 wib. Pakan lengkap dalam bahan kering diberikan sebanyak 2,6 % dari bobot badan ternak. Suplementasi *undegraded protein* diberikan hanya pada sapi kelompok perlakuan (K I) sebanyak 5 g/kgBB^{0,75}. Air minum diberikan secara bebas (*ad libitum*). Penimbangan sapi dilakukan seminggu setelah masa adaptasi. Hasil penelitian menunjukkan bahwa pemberian pakan lengkap dengan suplementasi *undegraded protein* memberikan perbedaan yang nyata ($P < 0,05$) terhadap PBBH (0,92 vs 0,56 kg/ekor/hari), konsumsi PK (0,80 vs 0,60 kg/ekor/hari), dan konversi pakan (6,56 vs 10,08), namun tidak memberikan perbedaan yang nyata ($P > 0,05$) terhadap konsumsi BK (6,03 vs 5,32 kg/ekor/hari), konsumsi TDN (3,17 vs 2,70 kg/ekor/hari) dan *feed cost/gain* (7.456,34 vs 9.724,24).

(Kata kunci: Sapi Peranakan Ongole, Pakan Lengkap, *Undegraded Protein*, Pertambahan Bobot Badan)

**THE AVERAGE DAILY GAIN WEIGHT OF THE
ONGOLE CROSBREED CATTLE FED WITH COMPLETE FEED
SUPPLEMENTED UNDEGRADED PROTEIN**

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ABSTRACT

The objective of this research was to investigate the gain weight of the Ongole Crossbreed (PO) cattle fed with complete feed supplemented undegraded protein. Eight Ongole Crossbreed cattle were divided randomly into two groups. The first group was the treatment (K I) and the other group was the control (K II). The initial body weight was tested by using the multi homogeneity test (Bartlett test) to understand the homogeneity of cattle. The consumption dry matter, crude protein, total digestible nutrients), the average daily gain (ADG), and feed conversion were statistically analyzed by using the t-test. The cattle were raised for 13 weeks, which consisted of 2 weeks of adaptation period and 11 weeks of feed treatment. The cattle were fed twice a day at 08.00 am and 04.00 pm. Complete feed was distributed 2.6% of cattle's body weight. Five gram/kg $BB^{0.75}$ of undegraded protein supplement was given only to the cattle in group K I. Water was offered ad libitum. The cattle was weight weekly in the morning before feed distribution. The result indicated that undegraded protein supplementation of complete feed significantly increased ($P < 0.05$) ADG (0.92 vs 0.56 kg/cattle), crude protein consumption (0.80 vs 0.60 kg/cattle), and feed conversion (6.56 vs 10.08), there was no significant effect ($P > 0.05$) on dry matter consumption (6.03 vs 5.32 kg/cattle), total digestible nutrients consumption (6.03 vs 5.32 kg/cattle) and feed cost/gain (7,456.34 vs 9,724.24).

(Keywords: The Ongole Crossbreed Cattle, Complete Feed,
The Undegraded Protein Supplement,
The Average Daily Gain)