

## **PERTUMBUHAN PEDET LEPAS SAPIH *BRAHMAN CROSS* DENGAN PENAMBAHAN *HIGH QUALITY FEED SUPPLEMENT***

Yohanes Victor Wahyu Sampurno  
13/346335/PT/06508

### **INTISARI**

Penelitian ini bertujuan mengetahui pengaruh penambahan *high quality feed supplement* (HQFS) dalam pakan terhadap pertumbuhan pedet lepas sapih *Brahman Cross*. Total 16 ekor sapi potong betina jenis *Brahman Cross* (BX) umur 4 hingga 6 bulan dengan rerata bobot badan  $89,3 \pm 12,7$  kg dibagi menjadi dua kelompok (8 ekor per kelompok), yaitu kelompok pertama dengan penambahan *high quality feed supplement* pada ransum pakan (kontrol) dan kelompok kedua tanpa penambahan *high quality feed supplement* (perlakuan). Parameter yang akan diamati adalah produktivitas dengan variabel yang diukur meliputi konsumsi pakan harian, pertambahan bobot badan harian (PBBH), dan *feed conversion ratio* (FCR). Penelitian juga mengamati nilai *feed cost per gain* serta nilai *income over feed cost* (IOFC) untuk analisis usaha. Analisis data yang digunakan adalah analisis statistik menggunakan analisis Ancova (*analysis of covariance*). Berdasarkan hasil penelitian didapatkan konsumsi pakan antara kelompok perlakuan dan kontrol berturut-turut  $4,5 \pm 1,2$  kg/ekor/hari dan  $4,3 \pm 0,5$  kg/ekor/hari. Pertambahan bobot badan harian tidak berbeda nyata antara kelompok perlakuan dan kontrol dengan nilai berturut-turut  $0,81 \pm 0,30$  kg/hari dan  $0,74 \pm 0,25$  kg/hari. Nilai rerata *feed conversion ratio* pada kelompok perlakuan yaitu  $5,13 \pm 0,14$  dan pada kelompok kontrol bernilai  $5,82 \pm 0,91$ . Pada analisis usaha, didapatkan nilai *feed cost per gain* tidak berbeda nyata pada tiap perlakuan, di mana nilai FC/G kelompok perlakuan Rp  $18.018 \pm 5.536$ /kg berat badan dan kontrol Rp  $18.949 \pm 3.943$ /kg berat badan. Nilai *income over feed cost* antara kelompok perlakuan dan kontrol juga tidak berbeda nyata, yaitu berturut-turut Rp  $1.327.500 \pm 599.154$  dan Rp  $1.078.500 \pm 416.012$ . Kesimpulan dari penelitian ini yaitu penambahan HQFS sebanyak 10% dari jumlah pemberian konsentrat belum mampu meningkatkan konsumsi pakan, pertambahan bobot badan harian, *feed conversion ratio*, *feed cost per gain* dan *income over feed cost* jika dibandingkan dengan pemberian pakan basal.

(Kata kunci: Sapi potong, *Brahman Cross*, Pedet, Pakan suplemen, Pertumbuhan)

## **THE GROWTH OF BRAHMAN CROSS POST WEANING CALVES WITH THE ADDITION OF HIGH QUALITY FEED SUPPLEMENT (HQFS)**

Yohanes Victor Wahyu Sampurno  
13/346335/PT/06508

### **ABSTRACT**

This aim of study was to determine the effect of addition of high quality feed supplement (HQFS) to the growth of Brahman Cross weaning calves. Total 16 female calves of Brahman Cross (BX) aged 4 to 6 months (BW 89,3 ± 12,7 kg) were randomly allocated into two groups (8 calves for each group), the first group with the addition of high quality feed supplement on feed ration (control) and second group without the addition of a high quality feed supplement (treatment). Parameters to be observed are productivity with measured variables including daily feed consumption, average daily gain (ADG), and feed conversion ratio (FCR). The study also looked at the value of feed cost per gain and the value of income over feed cost (IOFC) for business analysis. The data analysis used was statistical analysis using Ancova (analysis of covariance). The data analysis used is statistical analysis using Ancova analysis (analysis of covariance). Based on the results of the research, the feed consumption between treatment and control group was 4.5 ± 1.2 kg/head/ day and 4.3 ± 0.5 kg/ head/ day respectively. The daily weight gain was not significantly different between treatment and control group with the value of 0.81 ± 0.30 kg/ day and 0.74 ± 0.25 kg/ day, respectively. The mean value of feed conversion ratio in the treatment group was 5.13 ± 0.14 and in the control group was 5.82 ± 0.91. In the business analysis, the value of feed cost per gain was not significantly different in each treatment, where the FC/G treatment group cost Rp 18,018 ± 5,536/ kg body weight and control Rp 18.949 ± 3.943/ kg body weight. The value of income over feed cost between treatment and control group was not significantly different, that is Rp 1,327,500 ± 599,154 and Rp 1,078,500 ± 416,012 respectively. The conclusion of this study is the addition of HQFS as much as 10% of the amount of concentrate has not been able to increase feed consumption, daily weight gain, feed conversion ratio, feed cost per gain and income over feed cost when compared with basal feeding.

(Keywords: Beef cattle, Brahman Cross, Calves, Feed supplement, Growth)