



PENGARUH SISTEM PEMBERIAN COMPLETE FEED
DAN FREE CHOICE TERHADAP PERTUMBUHAN
SAPI DARA FRIESIAN HOLSTEIN

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INTISARI

penelitian bertujuan untuk mengetahui pengaruh sistem pemberian pakan secara *complete feed* (CF) dan *free choice* (FC) terhadap pertumbuhan sapi dara Friesian Holstein (FH), dilaksanakan di Laboratorium Ternak Perah, Fakultas Peternakan UGM, selama enam bulan. Dua belas ekor sapi dara FH berumur rata-rata 10 bulan dengan berat rata-rata $121,92 \pm 1,98$ Kg, secara acak dibagi menjadi dua kelompok. Kelompok I diberi pakan dengan sistem CF dengan imbalanced bahan kering hijauan dibanding konsentrat 60:40, sedangkan kelompok II diberi pakan secara FC, dimana hijauan dan konsentrat diberikan secara terpisah. Baik kelompok I maupun kelompok II keduanya diberi pakan secara *ad libitum*. Data diuji statistik dengan uji-t. Hasil analisis statistik menunjukkan bahwa konsumsi bahan pakan (bahan kering), protein kasar, dan energi (*total digestible nutrients*) dan penambahan berat badan harian terdapat perbedaan ($P < 0,01$) secara rata-rata kelompok II lebih tinggi daripada kelompok I. Temperatur rektal dan frekuensi denyut jantung tidak beda nyata, tetapi terdapat perbedaan ($P < 0,01$) pada frekuensi respirasi. Sistem pemberian pakan tidak menunjukkan adanya perbedaan yang nyata terhadap konversi pakan. Disimpulkan bahwa sistem pemberian pakan FC memberikan pengaruh terhadap pertumbuhan yang lebih tinggi dibanding sistem CF sehingga berat siap kawin yang direkomendasikan akan lebih cepat dicapai.

(Kata kunci : Sistem Pemberian Pakan, Pertumbuhan, Sapi Dara Friesian Holstein)

THE EFFECTS OF COMPLETE FEED AND FREE CHOICE
FEEDING SYSTEMS ON GROWTH
OF FRIESIAN HOLSTEIN HEIFER

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ABSTRACT

The study was conducted to investigate the effects of complete feed (CF) and free choice (FC) feeding systems on growth of Friesian Holstein heifers. The study took place at Dairy Laboratory Faculty of Animal Husbandry, Gadjah Mada University, for six months. Twelve heifers of Friesian Holstein, approximately 10 months of age with the average liveweight $121,92 \pm 1,98$ kg, were randomly grouped into two treatments. The treatment I was feeding with CF with dry matter ratio of 60:40, and treatment II was FC feeding system, with separate forage and concentrates. Both group I and group II were given *ad libitum*. The data were analyzed by t-test. The result indicated that there were significant difference ($P < .01$) between group I and group II on feed consumptions dry matter, crude protein and total digestible nutrients consumptions of Group II were greater ($P < .01$) those of Group I. Rectal temperature and pulsus rate were no differences significantly, but there was difference significantly on respiration rate ($P < .01$). Feeding systems indicated difference on total feed conversion. It was concluded that body weight of FC for breeding tended to be achieved earlier than that of CF.

(key word : Feeding Systems, Growth, Friesian Holstein Heifer)