

**PERTUMBUHAN ANAK SAPI PERANAKAN *FRIESIAN HOLSTEIN*
JANTAN DENGAN PEMBERIAN KONSENTRAT SUMBER
ENERGI SEBAGAI PENGANTI *WHEAT POLLARD* DI
TINGKAT PETERNAK KABUPATEN BOYOLALI**

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INTISARI

Penelitian ini bertujuan untuk mengetahui pertumbuhan anak sapi Peranakan *Friesian Holstein* (PFH) jantan dengan pemberian konsentrat sumber energi sebagai pengganti *wheat pollard* di tingkat peternak. Penelitian dilaksanakan di kelompok ternak sapi kab. Boyolali selama 2 bulan. Sebagai materi penelitian adalah 10 ekor anak sapi PFH jantan umur sekitar 4 bulan. Anak sapi di bagi menjadi 2 kelompok, yaitu kelompok kontrol (K) diberi pakan seperti biasanya oleh peternak berupa hijauan, *wheat pollard*, dan ampas tahu; kelompok perlakuan (P) diberi pakan konsentrat sumber energi sebagai pengganti *wheat pollard*. Data yang diteliti adalah data pertambahan bobot badan harian (PBBH) dan ukuran tubuh meliputi lingkar dada, panjang badan, dan tinggi pundak. Data dianalisis menggunakan *T-test*. Hasil penelitian pada kelompok perlakuan dan kontrol menunjukkan perbedaan nyata perlakuan pada konsumsi bahan organik (BO) ($2818,65 \pm 110,08$ dan $2976,24 \pm 79,32$ g/ekor/hari), konsumsi protein kasar (PK) ($574,06 \pm 25,12$ dan $509,09 \pm 16,19$ g/ekor/hari), *total digestible nutrients* ($2,09 \pm 0,081$ dan $2,20 \pm 0,057$ kg/ekor/hari), pertambahan bobot badan (PBB) ($53,00 \pm 15,02$ dan $36,26 \pm 6,01$ kg), ukuran tubuh meliputi panjang badan ($11,66 \pm 4,13$ dan $6,04 \pm 2,23$ cm), lingkar dada ($18,32 \pm 3,27$ dan $11,90 \pm 3,49$ cm), konversi pakan ($5,32 \pm 2,79$ dan $10,14 \pm 4,11$), dan selisih *feed cost per gain* Rp 16.728,46. Pemberian konsentrat sumber energi sebagai pengganti *wheat pollard* belum memberikan pengaruh yang nyata terhadap konsumsi bahan kering (BK), *total digestible nutrients*, PBBH, ukuran tubuh pada tinggi pundak, dan konversi pakan. Dari penelitian disimpulkan bahwa pemberian konsentrat sumber energi selama dua bulan sebagai pengganti *wheat pollard* belum dapat meningkatkan pertumbuhan.

(Kata Kunci: Pertumbuhan Anak Sapi PFH, Konsentrat, Ditingkat Peternak)

**CHILD GROWTH CROSSBREED HOLSTEIN FRIESIAN COW
MALE WITH GIVING CONCENTRATE RESOURCES
ENERGY IN LIEU OF WHEAT POLLARD
BREEDER OF DISTRICT BOYOLALI**

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ABSTRACT

This study is aim to determine the growth of Crossbreed Holstein Friesian calves (PFH) male by administering concentrated source of energy as a wheat pollard substitute at the farmer level. The experiment was conducted in a group of cattle in Boyolali Regency for two months. 10 PFH male calves aged about 4 months were used as a research material. The calves were divided into 2 groups: control group (K) was fed as usual by forage, wheat pollard, and tofu waste; the treatment group (P) fed with concentrated source of energy as a replacement for wheat pollard. The examined datas were daily body weight gain (PBBH) and body size include chest circumference, body length, and height of the shoulders. Datas were analyzed using T-test. The results of research on the treatment and control groups showed significant differences in the treatment of organic matter intake (BO) (2818.65 ± 110.08 and 2976.24 ± 79.32 g/head/day), consumption of crude protein (CP) (574.06 ± 25.12 and 509.09 ± 16.19 g/head/day), weight gain (UN) (53.00 ± 15.02 and 36.26 ± 6.01 kg), total digestible nutrients (2.09 ± 0.081 and 2.20 ± 0.057 kg/head/day), the size of the body includes a body length (11.66 ± 4.13 and 6.04 ± 2.23 cm), chest circumference (18.32 ± 3.27 and 11.90 ± 3.49 cm), feed conversion (5.32 ± 2.79 and 10.14 ± 4.11), and Feed the difference in cost per gain Rp 16.728.46. The provision of concentrates instead of wheat pollard has no significant effect on the consumption of dry matter (DM), total digestible nutrients, PBBH, the size of the body at shoulder height, and feed conversion. The research concluded that the provision of concentrated source of energy for two months instead of wheat pollard unable to increase growth.

(Keyword: PFH Calf Growth, Concentrates, Level Breeders)