

PENAMPILAN MORFOMETRIK PEDET FRIESIAN HOLSTEIN YANG DI PELIHARA DI PETERNAKAN RAKYAT DI KECAMATAN CANGKRINGAN, KABUPATEN SLEMAN

Nur Arief Adi Praja
16/394484/PT/07157

INTISARI

Penelitian ini bertujuan untuk mengetahui penampilan morfometrik pedet *Friesian Holstein* pra-sapah dengan sistem pemeliharaan berbeda di peternakan rakyat di Kecamatan Cangkringan Kabupaten Sleman. Penelitian berlokasi di Kelompok Plosokerep dan Ngudi Makmur II di Kecamatan Cangkringan, Sleman. Materi penelitian terdiri dari 20 pedet betina periode pra-sapah dibagi dua kelompok dengan sistem pemeliharaan berbeda. Kelompok pertama, pedet menyusui langsung ke induknya dan kelompok kedua, pedet yang diberi susu dengan ember. Pakan yang diberikan adalah susu, hijauan, dan konsentrat, diberikan pagi dan sore. Selama 30 hari penelitian, dilakukan pengukuran morfometri sebanyak 3 kali dan pengukuran konsumsi pakan setiap hari. Data yang diperoleh dianalisis Deskriptif. Hasil penelitian menunjukkan penampilan morfometrik pedet yang dipelihara di kelompok ternak Plosokerep meliputi panjang badan $68,19 \pm 4,61$ cm/ekor dengan penambahan $0,18 \pm 0,13$ cm/hari, tinggi badan $83,73 \pm 4,60$ cm/ekor dengan penambahan $0,16 \pm 0,15$ cm/hari, lingkaran dada $93,82 \pm 5,54$ cm/ekor dengan penambahan $0,25 \pm 0,10$ cm/hari, dalam dada $38,21 \pm 2,74$ cm/ekor dengan penambahan $0,11 \pm 0,06$ cm/hari, lebar dada $21,10 \pm 1,60$ cm/ekor dengan penambahan $0,12 \pm 0,06$ cm/hari, tinggi panggul $84,48 \pm 4,94$ cm/ekor dengan penambahan $0,14 \pm 0,10$ cm/hari, dan lebar panggul $20,71 \pm 2,21$ cm/ekor dengan penambahan $0,12 \pm 0,03$ cm/hari, dan penampilan morfometrik pedet yang dipelihara di kelompok ternak Ngudi Makmur II meliputi panjang badan $67,94 \pm 3,50$ cm/ekor dengan penambahan $0,13 \pm 0,08$ cm/hari, tinggi badan $82,19 \pm 4,82$ cm/ekor dengan penambahan $0,13 \pm 0,05$ cm/hari, lingkaran dada $91,90 \pm 4,07$ cm/ekor dengan penambahan $0,29 \pm 0,11$ cm/hari, dalam dada $36,46 \pm 2,65$ cm/ekor dengan penambahan $0,10 \pm 0,05$ cm/hari, lebar dada $18,97 \pm 2,46$ cm/ekor dengan penambahan $0,10 \pm 0,03$ cm/hari, tinggi panggul $84,25 \pm 4,38$ cm/ekor dengan penambahan $0,11 \pm 0,13$ cm/hari, dan lebar panggul $19,17 \pm 2,19$ cm/ekor dengan penambahan $0,09 \pm 0,03$ cm/hari. Konsumsi pakan pedet yang dipelihara di kelompok ternak Plosokerep dan Ngudi Makmur II berturut-turut meliputi konsumsi bahan kering ($1,58 \pm 0,82$ dan $1,20 \pm 0,27$ kg/ekor/hari), bahan organik ($1,41 \pm 0,72$ dan $1,10 \pm 0,24$ kg/ekor/hari), protein kasar ($0,14 \pm 0,12$ dan $0,08 \pm 0,04$ kg/ekor/hari), serat kasar ($0,14 \pm 0,14$ dan $0,06 \pm 0,04$ kg/ekor/hari), lemak kasar ($0,07 \pm 0,05$ dan $0,05 \pm 0,02$ kg/ekor/hari), dan *Total Digestible Nutrients* ($1,18 \pm 0,50$ dan $0,97 \pm 0,18$ kg/ekor/hari). Berdasarkan penelitian yang dilakukan dapat disimpulkan bahwa peternakan rakyat di Kecamatan Cangkringan,

Kabupaten Sleman memiliki dua pola pemeliharaan yang berbeda, yaitu pedet yang menyusui langsung dengan induk dan pedet yang diberi susu dengan ember. Konsumsi nutrisi pakan, penampilan morfometrik, dan pertambahan ukuran morfometrik sudah baik.

Kata kunci: Pedet *Friesian Holstein*, Morfometri Periode Pra-sapih, Perbedaan Pemeliharaan pedet, dan Konsumsi pakan.

MORPHOMETRIC APPEARANCE OF FRIESIAN HOLSTEIN CALVES KEPT IN LIVESTOCK GROUP IN CANGKRINGAN DISTRICT, SLEMAN

Nur Arief Adi Praja
16/394484/PT/07157

ABSTRACT

This study aimed to determine the morphometric appearance of calves *Friesian Holstein* pre-weaning with different maintenance systems in smallholder farms in Cangkringan District, Sleman Regency. The research located in the Plosokerep and Ngudi Makmur II groups in the Cangkringan District, Sleman. The research material consisted of 20 female calves in the pre-weaning period divided into two groups with different maintenance systems. The first group, the calves suckle directly to the cow and the second group, the calves are given milk by the bucket. The feed given is milk, forage, and concentrate, given in the morning and evening. During the 30 days of the study, morphometric measurements were carried out 3 times and measurement of feed consumption everyday. The data obtained were analyzed descriptively. The results showed that the morphometric appearance of calves reared in Plosokerep group included body length 68.19 ± 4.61 cm / head with an increase of 0.18 ± 0.13 cm / day, body height 83.73 ± 4.60 cm / head with an increase of 0.16 ± 0.15 cm / day, heart girth 93.82 ± 5.54 cm / head with an increase of 0.25 ± 0.10 cm / day, chest depth 38.21 ± 2.74 cm / head with an increase of 0.11 ± 0.06 cm / day, a chest width of 21.10 ± 1.60 cm / head with an increase of 0.12 ± 0.06 cm / day, a withers height of 84.48 ± 4.94 cm / head with a an increase of 0.14 ± 0.10 cm / day, and a hip width of 20.71 ± 2.21 cm / head with an increase of 0.12 ± 0.03 cm / day, and the morphometric appearance of calves reared in Ngudi Makmur II group covering body length of 67.94 ± 3.50 cm / head with an increase of 0.13 ± 0.08 cm / day, body height 82.19 ± 4.82 cm / head with an increase of 0.13 ± 0.05 cm / day, heart girth 91.90 ± 4.07 cm / head with an increase of 0.29 ± 0.11 cm / day, chest depth 36.46 ± 2.65 cm / head with an increase of 0.10 ± 0.05 cm / day, chest width 18.97 ± 2.46 cm / head with an increase of 0.10 ± 0.03 cm / day, a withers height of 84.25 ± 4.38 cm / head with an increase of 0.11 ± 0.13 cm / day, and a hip width of 19.17 ± 2.19 cm / head with an increase of 0.09 ± 0.03 cm / day. The consumption of calf feed which reared in Plosokerep and Ngudi Makmur II group, respectively, includes dry matter consumption (1.59 ± 0.81 and 1.20 ± 0.27 kg / head / day), organic matter (1.41 ± 0.71 and 1.10 ± 0.24 kg / head / day), crude protein (0.14 ± 0.11 and 0.08 ± 0.04 kg / head / day), crude fiber (0.14 ± 0.14 and 0.06 ± 0.04 kg / head / day), crude fat (0.08 ± 0.04 and 0.05 ± 0.02 kg / head / day), and *Total Digestible Nutrients* (1.19 ± 0.50 and 0.97 ± 0.18 kg / head / day). Base on the research, it can be conclude that the people's farms in Cangkringan Subdistrict, Sleman Regency have two different maintenance system, namely calves that are fed directly with the

cow and calves that are given milk with buckets. Consumption of feed nutrients, morphometric performance, and increase in morphometric size are good.

Keywords: *Friesian Holstein* Calves, the Pre-weaning Period Morphometry, Different Maintenance of Calf and Feed Consumption