

## IDENTIFIKASI KINERJA REPRODUKSI KAMBING PERANAKAN ETTAWA BERDASARKAN MILK UREA NITROGEN

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### INTISARI

Penelitian bertujuan untuk mengidentifikasi kinerja reproduksi Kambing Peranakan Ettawa berdasarkan *milk urea nitrogen*. Materi penelitian yang digunakan adalah 6 ekor kambing PE laktasi yang sedang tidak bunting dengan rata-rata bobot badan 40 kg dan diperah diperkirakan produksi susu 0,5 sampai 1,0 liter/ekor/hari yang ada di peternakan kambing PE “Rejodani” di Rejodani, Sariharjo, Sleman, Yogyakarta. Susu yang diambil sebagai sampel adalah susu pada awal pemerahan pagi hari yang diambil setiap hari selama satu bulan. Bahan pakan yang diberikan adalah hijauan (Kaliandra dan daun Nangka) dan polar. Pakan diberikan pagi dan siang hari. Kandungan Protein kasar (PK) dianalisis secara kimia. Variabel kinerja reproduksi yang diukur adalah *post partum estrus* (PPE), *service per conception* (S/C) dan *days open* (DO). *Milk urea nitrogen* (MUN) dan data kinerja reproduksi dianalisis menggunakan analisis regresi linear untuk mengetahui hubungan antara MUN dengan kinerja reproduksi. Hasil penelitian menunjukkan bahwa rata-rata *milk urea nitrogen* adalah  $32,39 \pm 2,41$  mg/dL, sedangkan *post partum estrus* (PPE), *service per conception* (S/C), dan *days open* (DO) berturut-turut adalah;  $62,67 \pm 5,92$  hari;  $1,76 \pm 0,23$ ; dan  $119,83 \pm 8,88$  hari. Hasil analisis regresi linear menunjukkan bahwa tidak terdapat hubungan antara *milk urea nitrogen* dengan kinerja reproduksi (PPE, S/C, dan DO).

Kata kunci : Kinerja reproduksi, Kambing Peranakan Ettawa, *Milk urea nitrogen* (MUN).

## IDENTIFICATION OF REPRODUCTIVE PERFORMANCE OF ETTAWA CROSSEDBRED GOATS BASED ON *MILK UREA NITROGEN*

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### ABSTRACT

That study was carried out to identification of reproductive of Ettawa crossbred goats based on milk urea nitrogen levels. Six lactating goat non pregnant Ettawa crossbred goats, with 40 kg average of weight were used in this study. Milk production was estimated to be 0.5 to 1.0 liter/day. The goats were maintained in “Rejodani” Farm, in Rejodani, Sariharjo, Sleman, Yogyakarta. The goats were milked twice a day, milk sample were taken in the morning at early milked. Goats were fed with forage (*Calliandra calothyrsus* and *Jackfruit leaves*) and Pollard twice a day in the morning and afternoon. Feed composition were analyzed to get crude protein (CP). Reproductive performance were evaluated based on *post partum estrus* (PPE), *service per conception* (S/C) dan *days open* (DO). Linier regression were used to determine the relationship between *milk urea nitrogen* levels and reproductive performance. The results showed that the average of *milk urea nitrogen* levels were  $32.39 \pm 2.41$  mg/dL while *post partum estrus* (PPE), *service per conception* (S/C) and *days open* (DO) were  $62.67 \pm 5.92$  days;  $1.76 \pm 0.23$ ; and  $119.83 \pm 8.88$  days. Regression analysis showed that there is no relationship between *milk urea nitrogen* levels and reproductive performance.

Key words : Reproductive performance, Ettawa crossbred goats, *Milk Urea Nitrogen* (MUN)