

## ABSTRAK

### KORELASI ANTARA BOBOT BADAN DAN FREKUENSI DENYUT JANTUNG SAPI *FRIESIAN HOLSTEIN* MASA KERING YANG DIPELIHARA DI PT. GREAT GIANT LIVESTOCK

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Bobot badan dan frekuensi denyut jantung merupakan hasil respon fisiologis yang menjadi penentu status kesehatan sapi khususnya dalam masa bunting dan masa kering. Penelitian ini bertujuan menganalisis hubungan antara bobot badan dan frekuensi denyut jantung sapi dalam masa kering. Materi dalam penelitian ini menggunakan data fisiologis bobot badan dan frekuensi denyut jantung sapi perah betina pada periode kering sebanyak 30 ekor yang diambil menggunakan metode survei langsung dari peternakan sapi perah milik PT. Great Giant Livestock Kabupaten Lampung Tengah Provinsi Lampung. Data yang dikumpulkan meliputi waktu pengukuran, identitas sapi, status sapi (periode kering), berat badan, dan frekuensi denyut jantung (pulsus). Rata-rata bobot badan sapi diperoleh rata sebesar  $661.980 \pm 64.8436$  kg dan rata-rata frekuensi denyut jantung  $98.6 \pm 9.8$  kali per menit. Analisis statistik dengan metode *Spearman Test* menunjukkan tidak adanya korelasi atau hubungan antara bobot badan dan frekuensi denyut jantung secara statistik. Dari penelitian ini dapat disimpulkan bahwa pertambahan bobot badan tidak memiliki korelasi dengan hasil frekuensi denyut jantung sapi bunting dalam masa kering.

**Kata kunci:** bobot badan, frekuensi denyut jantung, korelasi, masa kering, sapi perah

## ABSTRACT

### CORRELATION BETWEEN BODY WEIGHT AND HEART RATE FREQUENCY OF DRY HOLSTEIN FRIESIAN CATTLE MAINTAINED AT PT. GREAT GIANT LIVESTOCK

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Bodyweight and heart rate are the results of physiological responses that determine the health status of cows, especially during pregnancy and dry periods. This study aims to analyze the relationship between body weight and heart rate of cattle in the dry period. The material in this study used physiological data on body weight and heart rate of 30 female dairy cows in the dry period which were taken using a survey method from a dairy farm owned by PT. Great Giant Livestock, Central Lampung Regency, Lampung Province. The data collected included measurement time, cow identity, cow status (dry period), body weight, and heart rate (pulse). The average body weight of cows was obtained by an average of  $661,980 \pm 64.8436$  kg and an average heart rate of  $98.6 \pm 9.8$  times per minute. Statistical analysis using the Spearman Test method showed that there was no statistical correlation or relationship between body weight and heart rate. From this study, it can be concluded that body weight gain does not correlate with the results of the heart rate of pregnant cows in the dry period.

**Keywords:** body weights, correlation, dairy cows, dry period, heart rate frequency