

ABSTRAK

KORELASI ANTARA BOBOT BADAN DAN FREKUENSIRESPIRASI PEDET WEANING *FRIESIAN HOLSTEIN* DI *DAIRY FARM* PT. GREAT GIANT LIVESTOCK

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Bobot badan dan frekuensi respirasi merupakan variabel yang penting saat memilih pedet unggul yang nantinya menjadi calon induk sapi perah pengganti. Penelitian ini bertujuan untuk mengetahui hubungan antara bobot badan dan frekuensi respirasi pedet *Friesian Holstein* (FH) dalam program penyapihan milik PT. Great Giant Livestock yang terletak di Kecamatan Terbanggi Besar, Kabupaten Lampung Tengah, Provinsi Lampung. Penelitian ini menggunakan data fisiologis bobot badan dan frekuensi respirasi pedet FH dalam program penyapihan milik PT. Great Giant Livestock. Metode penelitian yang digunakan adalah analisis deskriptif untuk menganalisis rata-rata variabel dengan jumlah sampel 30 ekor pedet berumur 2-3 bulan yang diambil pada bulan Maret 2021. Pedet FH yang digunakan mempunyai rata-rata bobot badan sebesar $64,8 \pm 9,671$ kg dan rata-rata frekuensi respirasi sebesar $57,8 \pm 15,432$ kali per menit. Analisis korelasi menggunakan uji *Pearson* menunjukkan bahwa tidak terdapat korelasi yang positif antara bobot badan dan frekuensi respirasi pedet FH masa penyapihan yang dipelihara di PT. Great Giant Livestock ($p > 0,05$). Berdasarkan hasil penelitian dapat disimpulkan bahwa bobot badan tidak berpengaruh pada frekuensi respirasi pedet FH yang dipelihara di PT. Great Giant Livestock.

Kata kunci: bobot badan, frekuensi respirasi, korelasi, pedet *Friesian Holstein*, penyapihan, sapi perah

ABSTRACT

CORRELATION BETWEEN BODY WEIGHT AND RESPIRATION RATE OF WEANING HOLSTEIN-FRIESIAN CALVES AT PT. GREAT GIANT LIVESTOCK DAIRY FARM

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Body weight and respiration rate are considered important variables when it comes to choosing the best calves for replacement dairy cattle. The objective of this study was to determine the correlation between body weight and respiration rate of Holstein-Friesian (HF) calves in the weaning program at PT. Great Giant Livestock in Terbanggi Besar District, Central Lampung Regency, Lampung Province. The samples which were used in this study were physiology data that include body weight and respiration rate of weaning HF calves in PT. Great Giant Livestock. This study used a descriptive analysis test to analyze the means of the variables using 30 samples from HF calves ranging from the age of 2-3 months that was taken in March 2021. The HF calves that are used had an average body weight of 57.8 ± 15.432 kg and an average respiration rate of 57.8 ± 15.432 breaths per minute. Correlation analysis by using the Pearson test shows that there is no positive correlation between body weight and respiration rate of weaning HF calves that were kept in PT. Great Giant Livestock ($p > 0.05$). Therefore, according to the study's result, it can be concluded that body weight does not affect the respiration rate of the weaning HF calves that are being kept at PT. Great Giant Livestock.

Key words: correlation, body weight, dairy cattle, Holstein-Friesian calves, respiration rate, weaning