

INTISARI

KAJIAN FREKUENSI RESPIRASI, PULSUS, DAN SUHU SAPI PERAH FRIESIAN HOLSTEIN PADA MASA KERING DI DAIRY FARM PT GREAT GIANT LIVESTOCK

Oleh:

Ivana Audia Subekti

18/427321/KH/09695

Dairy Farm PT Great Giant Livestock merupakan perusahaan peternakan sapi perah *Friesian Holstein* (FH) yang berlokasi di Kecamatan Terbanggi Besar yang berada di ketinggian 54 mdpl dengan suhu per tahun berkisar antara 28,02-35°C dan kelembaban per tahun 72,38-80,90%. Kondisi lingkungan ini tentunya dapat memengaruhi kondisi fisiologis sapi perah, terutama pada saat kering kandang. Penelitian mengenai nilai fisiologis sapi perah saat kondisi kering kandang yang dipelihara di daerah dataran rendah sampai saat ini belum tersedia. Penelitian ini bertujuan untuk mengetahui nilai frekuensi respirasi, frekuensi pulsus, dan suhu sapi perah FH kering kandang yang dipelihara di *Dairy Farm* PT Great Giant Livestock.

Penelitian ini menggunakan 30 ekor sapi perah FH kering kandang dan pengambilan data dilakukan pada saat pagi hari pukul 08.00-10.00. Frekuensi respirasi dihitung dengan cara mengamati pergerakan *thoraco-abdominal*. Frekuensi pulsus dihitung dengan metode palpasi di arteri koksigeal. Pengukuran suhu dilakukan dengan menggunakan termometer digital melalui rektum. Data yang diperoleh kemudian dianalisis secara deskriptif.

Hasil penelitian menunjukkan frekuensi respirasi berkisar 36-84 kali/menit dengan rata-rata $51 \pm 10,1811$ kali/menit. Frekuensi pulsus berkisar 84-114 kali/menit dengan rata-rata $98,6 \pm 9,8$ kali/menit. Suhu rektal berkisar 38,50-40,30°C dengan rata-rata $39,4 \pm 0,5391$ °C. Berdasarkan hasil penelitian dapat disimpulkan bahwa sapi perah FH kering kandang yang dipelihara di *Dairy Farm* PT Great Giant Livestock berada dalam kisaran normal.

Kata kunci: *Friesian Holstein*, kering kandang, frekuensi respirasi, frekuensi pulsus, suhu

ABSTRACT

STUDY OF RESPIRATION RATE, PULSE RATE, AND TEMPERATURE OF FRIESIAN HOLSTEIN DURING DRY PERIOD IN DAIRY FARM PT GREAT GIANT LIVESTOCK

By:

Ivana Audia Subekti

18/427321/KH/09695

Dairy Farm PT Great Giant Livestock is a Friesian Holstein (FH) dairy farming company located in Terbanggi Besar District which is located at an altitude of 54 meters above sea level with annual temperature range of 28,02-35°C and annual humidity of 72,38-80,90%. This environmental condition can affect the physiological condition of dairy cows, especially during the dry period. Research on the physiological value of dairy cows during dry period in lowland areas is not yet available. This study aims to determine the value of respiration rate, pulse rate, and temperature of dry FH dairy cows kept at Dairy Farm PT Great Giant Livestock.

This study used 30 dry FH dairy cows and data collection was carried out in the morning at 08.00-10.00 am. The respiration rate was calculated by inspecting thoraco-abdominal movements. The pulse rate was calculated by palpating in the coccygeal artery. Temperature measurement is done using a digital thermometer through the rectum. The data obtained were analyzed descriptively.

The results showed that the respiration rate ranged from 36-84 times/minute with an average of $51 \pm 10,1811$ times/minutes. Pulse rate ranged from 84-114 times/minute with an average of $98,6 \pm 9,8$ times/minute. Rectal temperatures ranged from 38,50-40,30°C with an average of $39,4 \pm 0,5391$ °C. Based on the results of the study, it can be concluded that the dry FH dairy cows kept at the Dairy Farm PT Great Giant Livestock are in the normal range.

Key words: Friesian Holstein, cage dry dairy cows, respiration rate, pulse, temperature