

MAMAN JAFAR. 04141611036. TEMPERATURE HUMIDITY INDEX DAN BODY CONDITION SCORE SAPI BALI INDUK YANG DIPELIHARA DI PETERNAKAN RAKYAT KECAMATAN TIDORE UTARA

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RINGKASAN

Tujuan penelitian ini adalah untuk menentukan *Temperature Humidity Index* (THI) dan *Body Condition Score* (BCS) sapi Bali induk yang dipelihara di peternakan rakyat di Kecamatan Tidore Utara, selama bulan Juni sampai Juli 2022. Nilai THI ditentukan berdasarkan data suhu dan kelembaban udara, sedangkan nilai BCS ditentukan dengan metode observasi melalui pengamatan langsung terhadap sapi Bali induk (skor penilaian skala 1-5). Data suhu, kelembaban udara, dan THI ditabulasi di Microsoft Excel, dianalisis secara deskriptif (rata-rata dan standar deviasi), dan disajikan dalam bentuk tabel, sedangkan data BCS dianalisis berdasarkan persentase (%) jumlah individu pada 5 kelompok skor dan disajikan dalam bentuk grafik. Hasil penelitian menunjukkan bahwa rata-rata suhu pada pagi dan sore hari di lokasi penelitian relatif sama ($32,00 \pm 3,14$ vs. $32,01 \pm 1,17$), sedangkan rata-rata kelembaban udara pada kedua kelompok waktu relatif berbeda ($87,89 \pm 11,14$ vs. $77,96 \pm 6,50$). Rata-rata THI pada pagi dan sore hari ($88,71 \pm 3,23$ vs. $85,67 \pm 1,00$) menunjukkan bahwa sapi-sapi yang diteliti berada dalam kategori stress panas berat. Sebagian besar sapi yang diteliti memiliki BCS 3 (46,67%), sedangkan sisanya memiliki BCS 2 (33,33%), BCS 4 (13,33%), dan BCS 1 (6,67%). Sapi-sapi yang diteliti tidak ada yang memiliki BCS 5 (0%).

Kata kunci: *Temperature Humidity Index*, *Body Condition Score*, Sapi Bali, Suhu, Kelembaban Udara

MAMAN JAFAR. 04141611036. *TEMPERATURE HUMIDITY INDEX AND BODY CONDITION SCORE OF BALI COWS KEPT ON SMALLHOLDER FARMS IN TIDORE UTARA DISTRICT*

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ABSTRACT

This study aimed to determine *Temperature Humidity Index* (THI) And *Body Condition Score* (BCS) of Bali cows kept on smallholder farms in Tidore Utara district, from June to July 2022. The THI value was determined based on temperature and relative humidity data, while the BCS value was determined through direct observation (scoring scale: 1-5). Data on temperature, relative humidity, and THI were tabulated in Microsoft Excel, analyzed using descriptive statistics as mean and standard deviation, and presented in tabular form, while the BCS data were analyzed as percentage (%) for each scale group in graphical form. The results showed that the average temperature in the morning and evening at the study site was relatively similar (32.00 ± 3.14 vs. 32.01 ± 1.17), while the average relative humidity in the two time groups was relatively different (87.89 ± 11.14 vs. 77.96 ± 6.50). The average THI in the morning and evening (88.71 ± 3.23 vs. 85.67 ± 1.00) indicated that the studied cows experienced severe heat stress. The majority of the cows had BCS 3 (46.67%), while the remaining cows had BCS 2 (33.33%), BCS 4 (13.33%), and BCS 1 (6.67%). None of the cows had BCS 5 (0%).

Keywords: *Temperature Humidity Index, Body Condition Score*, Bali Cattle, Temperature, Relative Humidity