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Perilaku Rusa Totol (Axis axis) pada Periode Pengamatan Pagi hingga Sore Hari di Mini Zoo Jogja Exotarium
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BEHAVIOR OF SPOTTED DEER (*Axis axis*) DURING THE OBSERVATION PERIOD FROM MORNING TO AFTERNOON AT MINI ZOO JOGJA EXOTARIUM

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ABSTRACT

The spotted deer (*Axis axis*) is one of the tropical deer species that is commonly kept in ex situ conservation institutions. The environmental conditions in the chital deer enclosure are among the factors that can influence deer behavior. This study aims to identify the environmental conditions of the spotted deer enclosure and the daily behavioral patterns of spotted deer at Mini Zoo Jogja Exotarium. The research sample consisted of three adult chital deer, regardless of sex, kept in an open enclosure. Environmental observations were conducted for 14 consecutive days by measuring temperature and humidity during morning (08:30-10:30 WIB), midday (12:00-14:00 WIB), and afternoon (15:00-17:00 WIB) sessions. Behavioral observations were conducted using the scan sampling method at 5-minute intervals for 120 minutes in each observation session. The observed behaviors included locomotion, resting, feeding, social, excretion, autogrooming, and exploration. The results showed that the highest enclosure temperature occurred at midday at 29.1±0.8°C and the lowest in the morning at 26.5±0.8°C. The highest humidity occurred in the afternoon at 71.5±5.5% and the lowest at midday at 63.4±2.8%. Locomotion was the predominant behavior observed throughout the study period, with a frequency of 37.9 ± 1.7%, whereas excretion was the least frequently observed behavior, with a frequency of 1.0 ± 0.3%. Variations in the daily behavior of spotted deer were observed across different observation periods (morning, midday, and afternoon), coinciding with differences in environmental conditions, particularly temperature and humidity.

Keywords: environment, Mini Zoo Jogja Exotarium, daily behavior, spotted deer