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CHARACTERISTICS OF MORPHOLOGY, REPRODUCTIVE AND PHYSIOLOGICAL RESPONSE OF SWAMP BUFFALO ON DIFFERENT LANDS IN WEST ACEH REGENCY

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ABSTRACT

Swamp buffaloes are among the most sought-after livestock for meat production in West Aceh Regency. Therefore, an analysis of their production and reproduction is necessary to determine the direction for potential development. The objective of this research is to analyze the characteristics of morphology, reproductive efficiency, and physiological response of swamp buffaloes in different plains in West Aceh Regency. The study was conducted in West Aceh Regency on different plains, including coastal plains and undulating plains, from May to September 2023. The variables measured include quantitative traits, reproductive efficiency, and physiological response, evaluated based on rectal temperature, with a total of 200 animal samples and 100 respondents. The analysis used multiple linear regression and t-test.

The research results indicate that the most common quantitative traits such as body length, chest width, chest circumference, hip width, and body weight are influenced ($P<0.05$) by different plain conditions. Reproductive performance in terms of age at first marriage variable and reproductive efficiency is influenced ($P<0.05$) by different plain condition. The physiological response of buffaloes shows that rectal temperature is influenced ($P<0.05$) by different plain conditions.

KEYWORDS

Swamp Buffalo, Morphology, Reproductive Efficiency, Physiological Response, Plains.

INTRODUCTION

Swamp buffalo is a type of meat-producing livestock that is very adaptable to tropical humid environmental conditions, so it is widely bred. Swamp buffalo is a type of strong worker, a type of potential meat animal, has high adaptability to changes in temperature and air temperature, capability for low quality feed, relatively resistant to internal and external parasites, good productivity. Aceh Province, especially West Aceh Regency, is one of the areas with the largest population of swamp buffalo in Aceh Province. Based on data from the West Aceh Regency Central Statistics Agency (2022), the number of buffalo in West Aceh Regency in 2021 will be 21,517 head. The high population of buffalo in West Aceh Regency is due to the high public demand for buffalo meat compared to other livestock meat. The buffalo population in 2021 will decrease compared to 2020.

The buffalo population in 2021 was 21,517, while the buffalo population in 2020 was 25,345. The decline in the buffalo population in West Aceh Regency is likely caused by low levels of buffalo productivity and reproductivity. West Aceh Regency Most of the area is on

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