

# REPRODUCTIVE PERFORMANCE OF BEEF CATTLE AT THE FARMERS LIVESTOCK IN CAWAS DISTRICT KLATEN REGENCY

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## ABSTRACT\*)

This study aims to determine the reproductive performance and the relationship between BCS and reproductive performance in the farmers livestock in Cawas District, Klaten Regency. The research was conducted from 1 until 30 November 2018 in Cawas District, Klaten Regency. The materials used were 101 beef cattle parent have been calving at least 2 times and 78 beef cattle farmers. The method used in this research were survey. The variables measured include age of puberty, estrous cycle, Body Condition Score, the age of first partum, post partum estrous, post partum matting, calving interval, and service per conception. The data obtained are then analyzed in descriptive and to find out the relationship between BCS and S/C and CI data were processed using correlation and regression analysis. The results showed reproductive behaviour of beef cattle in Cawas District respectively : the average age of puberty  $22,59 \pm 2,28$  months, estrous cycle  $20,74 \pm 0,59$  days, *service per conception* (S/C)  $2,01 \pm 0,75$ , age first partum  $33,32 \pm 2,99$  months, *calving interval* (CI)  $16,68 \pm 2,04$  months, *post partum estrous* (PPE)  $157,31 \pm 39,63$  days, *post partum matting* (PPM)  $157,69 \pm 39,11$  days, calf wearing age  $6,32 \pm 1,77$  months, and *body condition score* (BCS)  $2,72 \pm 0,56$ . From the results of correlation and regression analysis showed the BCS have an effect on S/C on the with regression equation  $Y = 3,237 - 0,450 X$ . ( $r^2$ ) = 11,2%. (R) = 0,335. The results correlation and regression analysis showed the BCS have an effect on CI on the with regression equation  $Y = 21,140 - 1,641 X$ . ( $r^2$ ) = 20,1%. (R) = 0,448. It was concluded that the reproductive performance of beef cattle in Cawas District still needed to be improved. BCS has a positive effect on Service per Conception (S/C) and Calving Interval (CI).

(Key words : *Reproductive performance, beef cattle, BCS, S/C, CI*)

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