

**BODY TEMPERATURE AT ARTIFICIAL INSEMINATION AND  
THE RESULTED PREGNANCY RATES OF HIGHLAND  
AND LOWLAND DAIRY CATTLE IN PASURUAN  
EAST JAVA**

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**ABSTRACT**

This study aimed to know the body temperature at artificial insemination and the resulted pregnancy rates of highland and lowland dairy cattle. One hundred dairy cattle were used as samples for the highland and one hundred for lowland. Body temperature was measured manually from rectum on every cow artificial at the time of artificial insemination. Observation was done on the 60<sup>th</sup> day after insemination to determine pregnancy rates. This research method is exploratory field to prove the influence of body temperature against pregnancy rate and the average optimum body temperature to perform artificial insemination. The regression tree test results of there is the influence of body temperature against pregnancy rate but lowlands and highlands does not affect the pregnancy rate. optimal body temperature in dairy cows to perform insemination is  $\leq 37,75^{\circ}\text{C}$  to produce a percentage of pregnancy by 84% with a sample of 200 dairy cows  $\leq 37,75^{\circ}\text{C}$  body temperature range between  $36^{\circ}\text{C} - 37,75^{\circ}\text{C}$  resulted in 74 pregnant dairy cows..

**Key word :** dairy cattle, pregnancy rate, body temperature, highland, lowland