REPRODUCTIVE EFFICIENCY OF HOLSTEIN FRISIAN CROSS (PFH) ARTIFICIAL INSEMINATION (AI) AKSEPTOR AT VILLAGE UNIT COOPERATIVES (KUD) SRI WIGATI PAGERWOJO TULUNGAGUNG

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ABSTRACT

The purpose of this study was to determined the number of *CR, S/C, CvR, DO,* and *CI* from *Friesian Holstein Cross (PFH)* dairy cows in KUD Sri Wigati, Pagerwojo, Tulungagung. This study uses survey research. The data were obtained from primary and secondary data. Primary data were obtained from interviews with 82 cattle breeders, which included the identity of those cattle breeders, dairy cattle's housing system, age, and daily feed. Secondary data were obtained from Artificial Insemination card from the breeder. Data taken 10% of the 3.154 dairy cattle Artificial Insemination acceptor is 300 cows. The results obtained *CR* (39%), the *S/C* (2,17), *CvR* (87.7%), *DO* (104.65 days), and *CI* (434.26 days). Then, the components' data which included *DO, S/C,* and *CI,* were divided based on the sample's age estimation into three different age groups, they were 2-4 years, 5-7 years and >8 years. *DO, S/C,* and *CI's* components were analyzed using *Regretion Test* based on those three different age groups. The result of the study showed that there was relationship between the *DO, S/C,* and *CI's* components and sample's age estimation ($p<0.05$).

Keywords: Reproductive efficiency, artificial insemination, dairy cattle, *Friesian Holstein Cross*