

**THE EFFECT OF MUCOS ACIDITY OF VAGINA MUCOUS WHEN
ESTRUS AND *CONCEPTION RATE* (CR) ON DAIRY CATTLE IN KUD
TANI WILIS TULUNGAGUNG DISTRICT AND KSU TUNAS SETIA
BARU PASURUAN DISTRICT**

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ABSTRACT

The purpose of this research is to determine the effect of mucos acidity of vaginal mucous when estrus towards *conception rate* at KUD Tani Wilis Tulungagung District and KSU Tunas Setia Baru Pasuruan District. Measured samples were taken from 30 dairy cattles in each KUD. Mucos acidity of vaginal mucous were obtained by using a digital acidity meter before insemination was done on dairy cattle. After measuring the acidity from mucosal vagina mucous, artificial insemination has done on estrus dairy cattle. On the 60th day after insemination, rectal palpation was done to check the *conception rate*. Research result from 30 dairy cattle on each KUD showed that mucos acidity of vaginal mucous has significant effect towards *conception rate*. Mucos acidity of vaginal mucous range 6.5-8.5 with the highest range of conception rate in KSU Tunas Setia Baru Pasuruan District 7.5-7.7 and in KUD Tani Wilis Tulungagung District with the highest range of conception range 7.2-7.4 and 7.5-7.7.

Keywords : Dairy cows, Mucos acidity of vaginal mucous, Conception Rate (CR)