

## **TESTOSTERONE LEVEL, LIBIDO REACTION AND SEMEN QUALITY OF MADURA BULLS IN SEMEN COLLECTION USING ESTRUS AND NON-ESTRUS TEASER COW**

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### **ABSTRACT**

This research aims to determine the effect of using estrus and non-estrus teaser cow in semen collection on the blood testosterone levels, libido reaction; and the semen quality to learn of by 10 Madura bulls. Blood samples were collected from jugular vein in 15 minutes prior to and subsequent to those treatments; Semen samples were collected with an artificial vagina. The testosterone levels before and after the treatment result non-estrus cow teaser: pre ( $0.26 \pm 0.09$  ng/ml) and post ( $0.23 \pm 0.05$  ng/ml), with estrus cow teaser: pre ( $0.22 \pm 0.06$  ng/ml) and post ( $0.23 \pm 0.06$  ng/ml). Reaction observations libido measured by first approaching the females to ejaculate, female tease with non estrus cow =  $11.87 \pm 3.01$ , female tease with estrus cow =  $6.25 \pm 3.38$ . These semen qualities were measured by the motility and viability of spermatozoa which were their result of the motility with non-estrus cow ( $54.50 \pm 10.12\%$ ), estrus cow ( $63.50 \pm 13.75\%$ ), the viability with non-estrus cow ( $64.80 \pm 13.18\%$ ), estrus cow ( $71.80 \pm 14.89\%$ ). Madura bulls blood Testosterone levels in the semen collection, the estrus status of female teaser did not affect blood Testosterone levels. Reaction libido on Madura bulls with estrus teaser cow has a better reaction compared to using non estrus teaser cow, showed that the semen-making process of the male libido is affected by the status of female teaser, where the motility and viability of their spermatozoa with estrus cow were better than the non-estrus one.

Keywords: Madura's bull, teaser cows, the quality of spermatozoa, Testosterone level, libido reaction