REPRODUCTIVE EFFICIENCY OF *LIMOUSIN* AND *SIMMENTAL* CROSS RESULTED FROM ARTIFICIAL INSEMINATION (AI) DURING 2012 IN NGORO, JOMBANG

Nur Oky Andreana

ABSTRACT

This research aimed to measure the reproductive efficiency of *Limousin* and *Simmental* cross resulted from AI in Ngoro Jombang during 2012 through defining Conception Rates (CR), Service per Conception (S/C), Calving Rate (CVR), Days open (DO), Calving Interval (CI) and Fertility Status (FS). Secondary data was obtained from inseminator’s reproduction records of 50 *Limousin* cross cows and 50 *Simmental* cross cows. Data was analyzed using unpaired t-test and especially for S/C was analyzed using Mann Whitney (non-parametric). The results of this research showed no significant difference (p>0.05) on CR, S/C, CvR and CI between *Limousin* and *Simmental* cross cows. Meanwhile, there were significant difference (p<0.05) on DO and FS between *Limousin* and *Simmental* cross cows. The conclusion of this research was CR, S/C, CVR and CI of *Limousin* cross cows were as good as those of the *Simmental* cross cows. Meanwhile DO and FS of *Limousin* cross cows were better than those of the *Simmental* cross cows.

**Key words**: Efficiency of reproduction, artificial insemination, *Limousin*, *Simmental*