

**THE FERTILITY PERFORMANS OF BEEF COWS BY ARTIFICIAL
INSEMINATION (AI) IN PARITY 3 AND 4
AT SITUBONDO REGENCY**

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ABSTRACT

The study was conducted in a traditional farm at Panarukan District, Situbondo Regency which started on January 13th, to February 29th, 2011. The objective of the research was to comprehend the influence of breed to the reproductive efficiency of beef cows which are bred by the farmer in the source breeding area at Situbondo Regency. The materials used in this research were PO (Peranakan Ongole) cows, Limousin cross and Simental cross at the the third and fourth parity condition of the artificial insemination (AI) result, taken from the artificial insemination acceptor record card for 300 cows. Whereas, the method used in this research was the study case. The data collected were the secondary data. The secondary data were obtained from the reproduction recording (AI acceptor record) at Animals Husbandry Office of Situbondo Regency. The research variable observed was the reproductive performance of PO cows, Limousin cross, and Simental cross which included *Conception Rate (CR)*, *Service per Conception (S/C)*, *Days Open (DO)*, *Calving Interval (CI)* and Fertility Status (FS). The data were analyzed descriptively and to know the difference of *Service per Conception*, *Days Open* and *Calving Interval* of PO, Limousin, and Simental breeds at the third and fourth parity condition. The result of the study at the third parity showed that the average of *Conception Rate*, *Service per Conception*, *Days Open*, *Calving Interval* and Fertility Status for PO cows in order are 67; 1,37; 113,17; 398,4; 60,74, Limousin cross 62; 1,39; 112,81; 398,4; 56,79, Simental cross 52; 1,43; 124,83; 410,66; 36,53, whereas at the fourth parity condition the average value of *Conception Rate*, *Service per Conception*, *Days Open*, *Calving Interval* and Fertility Status for PO cows in order are 59; 1,36; 112,51; 398,26; 55,87, Limousin cross 66; 1,4, 115,24; 401,05; 56,9, and Simental cross 56; 1,38; 122,11; 407,7; 43,47.

Keyword: *Conception Rate(CR)*, *Service per Conception(S/C)*, *Days Open(DO)*, *Calving Interval(CI)*, and Fertility Status(FS).