

## Reproductive Performance of Dairy Cows at Different Parities: A Case Study in Enrekang Regency, Indonesia

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**Abstract :** The objective of this study was to know the reproductive performance of dairy cows at different parities. A total of 60 dairy Holstein-Friesian cows with parity one to three from five small farms raised by the farmers were used in the study. All cows were confined in tie stall barn with rubber on the concrete floor. The herds were visited twice for survey with the help of a questionnaire. Reproductive parameters used in the study were days open, calving interval, and service per conception (S/C). The results of this study showed that the mean ( $\pm$ SD) days open of the cows in parity 2 was slightly longer than those in parity 3 ( $228.2\pm 121.5$  vs.  $205.5\pm 144.5$ ;  $P=0.061$ ). None cows conceived within 85 days postpartum in parity 3 in comparison to 13.8% cows conceived in parity 2. However, total cows conceived within 150 days post partum in parity 2 and parity 3 were 30.1% and 36.4%, respectively. Likewise, after reaching 210 days after calving, number of cows conceived in parity 3 had higher than number of cows in parity 2 (72.8% vs. 44.8%;  $P<0.05$ ). The mean ( $\pm$ SD) calving interval of the cows in parity 2 and parity 3 were  $508.2\pm 121.5$  and  $495.5\pm 144.1$ , respectively. Number of cows with calving interval of 400 and 450 days in parity 3 was higher than those cows in parity 2 (23.1% vs. 17.2% and 53.9% vs. 31.0%). Cows in parity 1 had significantly ( $P<0.01$ ) lower number of S/C in comparison to the cows with parity 2 and parity 3 ( $1.6\pm 1.2$  vs.  $3.5\pm 3.4$  and  $3.3\pm 2.1$ ). It can be concluded that reproductive performance of the cows is affected by different parities.

**Keywords :** dairy cows, parity, days open, calving interval, service per conception

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