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Reproduction in Punganur cattle

K. VEERA BRAMHAIAH11, S.T. VIROJI RAO2 AND Y RAVINDRA REDDY3

Acharya N. G. Ranga Agricultural University Livestock Research Station, Palamaner, Chittoor (AP)

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ABSTRACT

Reproductive performance over a period of 5 years of Punganur cattle was analysed. The data revealed that the performance of Punganur cattle is as good as other dual purpose cattle and is comparable with the other Indian breeds. The parameters recorded were age at puberty 827.86 \pm 48.15 days, body weight at puberty 109.00 \pm 3.51 Kgs, age at first calving 1240.14 \pm 89.87 days, post – partum service period 152.00 \pm 14.50 days, number of services per conception 1.57 \pm 0.07, gestation period 284.04 \pm 0.83 days and inter calving period 473.46 \pm 18.13 days, respectively.

Key words: Punganur cattle, puberty, age at first calving, calving interval

Punganur cattle is world's shortest endangered humped cattle (Bos. Indicus) with long tail and switch touching the ground. It is a dual purpose breed with good adaptability to different climatic conditions and disease resistance. Reproductive traits play an important role in improvement of livestock productivity. The present study was undertaken to report the reproductive performance of the Punganur cattle. The data during the period from 1995–2000 was collected from the records of the Livestock Research Station, Palamaner. The data of animals with reproductive problems were excluded while calculating the service period and calving interval. The data was subjected to the statistical analysis as per Snedecor & Cochran (1967).

In the present study, the average age at puberty was 827.86±48.15 days, which is closer to the local dual purpose Ongole breed (Babu Rao and Sadasiva Rao, 1999) and lower than the other Indian breeds (Joshi and Phillips, 1953). The average body weight at puberty was 109.00±3.51 Kgs. Similar observations were reported by Rao et al, (1999). The average age at first calving observed was 1240.14 ±89.87 days and allied to that reported by Madava Rao et al. (1995) and closer to the findings of Narasimha Rao et al. (1981) in Kerry (K) x Punganur (P) crosses at different levels of exotic inheritance. The average post-partum service period was 152.00±14.50 days with 1.57±0.07 services per conception indicating the better reproductive efficiency. The average gestation period was $^{84.03\pm0.83}$ days with 473.46 ± 18.13 days calving ^{Interval}. These findings are lower than the Kerry x Scientist (A&G), 2Sr. Scientist (AB), 3Scientist (LPM)

Punganur (F2) crosses and slightly higher than ½KxP (F1) and ¼KxP crosses (Narasimha Rao et al, 1981) but similar to the findings of Rao et al, (1999). The present study indicates that the reproductive efficiency of the endangered Punganur cattle is at par with the other dual purpose Indian breeds.

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Corresponding author