

RESEARCH PAPER

Effect of level of Jersey inheritance on the length of dry period in cross bred cattle

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Article Info : Received : 25.03.2016; Revised : 29.08.2016; Accepted : 14.09.2016

A study was conducted to estimate the effect of level of Jersey inheritance on the length of dry period in cross bred cattle. The data on dry period of Jersey (J) and Red Sindhi (RS) cows maintained at dairy farm, Sundersan School of Animal Husbandry and Dairying, Sam Higginbottom Institute of Agriculture, Technology and Sciences Allahabad (Deemed-to-be-University) were recorded from the history sheets of the animals maintained during this period (1930-1962) for the basis of this study. The data on dry period (DP) were recorded from history sheets of 103 Jersey Sindhi crosses. Jersey Sindhi crosses were divided into 4 genetic-groups consisting of 17, 11, 51 and 24 animals in G₁ (1/2J x 1/2RS), G₂ (3/8 J x 5/8 RS), G₃ (1/4 J x 3/4RS), G₄ (1/8J x 7/8 RS). The effect of Jersey inheritance on dry period was recorded. The dry period of Jersey crosses pertaining to G₁, G₂ and G₃ and G₄ ranged from 50-81, 53-97 and 50-119 and 51-117 days, respectively. The mean dry period of Jersey crosses of genetic group G₁, G₂, G₃ and G₄ were 64.76, 68.81, 73.54 and 78.83 days, respectively. Genetic group of Jersey crosses had non-significant effect on the dry period of cows. Over the past few decades the investigations on determining the productive performance of cows have been in progress and considerable quantum of work has accumulated on this subject. This productive performance of cows is said to be influenced by number of environmental factor. If the any dairy animal having longer postpartum service period would have longer dry periods. New nutritional techniques, modern managerial and reproductive practices helps in shorten length of postpartum and it ultimately helps in decreasing the length of dry period.

Key words : Dry period, Cross bred, Jersey, Red Sindhi

How to cite this paper : Rai, Atul, Shinde, Kuladip Prakash and Gupta, Shailesh Kumar (2016). Effect of level of Jersey inheritance on the length of dry period in cross bred cattle. *Asian J. Bio. Sci.*, **11** (2) : 298-302. DOI : 10.15740/HAS/AJBS/11.2/298-302.