



MINISTRY OF JIHAD-E-AGRICULTURE

Agricultural Research, Education and Extension Organization
Agriculture and Natural Resources Research and Education Center
Center of Golestan

Comparison of reproductive performance of Monbillard and Holstein cows in Golestan province

Research worker: Abdollah Kavian

Abstract

The aim of the study were carried out to compare reproduction performance of pure Montbeliarde (M) , two- breed crossbreds of Montbeliarde- Holstein(50M:50H and 75M:25H) and pure Holstein cows kept in one farm located in Golstan Province. Analyzed were the following reproduction parameters: open days, calving interval, age at insemination, age at first caving, gestation length, number of insemination per conception, calf birth weigth and milk production. The Pure Montbeliarde and Montbeliarde- Holstein(50M:50H and 75M:25H) were not different from pur Holstein for age at first insemination, age at first calving. The Pure Montbeliarde and Montbeliarde sired crossbred cows(86.4, 82.1 and 79.26 d respectively) had fewer days open than the pure Holstein cows (109.12 d). The highest calving interval was observed for 406 days in pure Holstein cows, and the lowest was observed for 369.59,374.60 and 372.87 days in pure Montbeliarde cows and Montbeliarde sired crossbred cows. The pure Montbeliarde cows (1.17 times) tended ($P=0.0001$) to have lower number of insemination per conception than pur Holstein cows (1.64), but there was not significantly different betwhereeen 50M:50H (1.39 times) and 75M:25H(1.37 times). Calf birth weight were significantly fewer(37.7 kG) for pure Holstein than pure Montbeliarde cows , 50M:50H and 75M:25H. (37.7 kg vs. 42.26 , 40.42 and 40.58kg($p=0.0000$), but there was no significant difference There was a significant difference between pure Montbeliarde cows and 50M:50H and 75M:25H difference in mean milk yield between Holstein purebred cows and Monbiliard-Holstein cows. The average daily milk yield in pure Monbiliard, 50 : 50 Monbiliard-Holstein cross, 25 : 75

Monbiliarde-Holstein and pure Holstein were 27.93, 28.38, 29.5 and 32.53 kg, respectively. The pur Montbeliarde results of the present study indicate that the reproductive performance of and Montbeliarde sired crossbred cows with a large proportion of Montbeliarde genes are high in open days, calving interval, number of insemination per conception.

Keywords: Reproductive performance, Montbeliarde cows, Golstan Province