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The comparison of reproductive efficiency of Holestein- Simmental with Holstein cattle in Golestan province

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Abstract

The aim of this study were carried out to compare reproduction performance of pureHolstein and crossbreds ofHolestein- Simmental (50H:50S and 25H:75S) that kept in one farm located in Golstan Province. Reproductive parameters including age of first insemination, age of first calving, gestation length, open days, calving interval and calf birth weight were studied.The PureHolstein and Holestein- Simmental(50H:50S and 25H:75S) were not different for age at first insemination and age at first calving. The open days had significant influence onPure breed Holsteinand Holestein- Simmental (50H:50S) during the first and third lactation but had not significant influence on Holestein- Simmental (50H:50S) during the second lactation and Holestein-Simmental (50H:50S) during interval werein the pure breed Holstein(452 days) and less in Holestein- Simmental (50H:50S) during the second lactation(374.68).Calf birth weight in pure Holstein breed(41.228 and 43.787 Kg) were more than Holestein-Simmental crossbred(50H:50S), (40.32 and 41.107 Kg) during the first and second lactation and that was in Holestein-Simmental crossbred(50H:50S), (36.6 Kg) but there was no significant difference between them.

The results of this study indicate that the reproductive performance of Holestein-Simmental crossbred for open days and calving intervalwere better than pur Holstein.Butcalf birth weight was better in pure Holstein.

Keywords:Golstan Province, Reproductive performance, Simmental,Holestein- Simmental crossbred