

The influence of selected factors on somatic cell count in milk of cows from freestall barns

S u m m a r y

Investigations included the results of 18 139 of experimental milkings conducted in two herds in the years 2005-2008. In the first herd about 240 cows producing almost 9000 kg of milk were maintained. They were fed in TMR system. In the second one, 330 cows were bred, and their productivity reached to about 6500 kg of milk. Non standardized feeding was based on feedstuffs from permanent grasslands. Somatic cell count in milk with consideration of successive lactation, daily milk yield level and feeding season was analyzed. It was found that somatic cell count was significantly influenced by farm (connected with production level), successive lactation and daily milk yield. Higher cytological quality of milk was found at higher production level and also higher daily milk yield. Significant influence of season was only found in herd, where feeding of animals was based on green roughage. Grazing of animals could influence an improvement in cytological quality of milk.