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Effect of some non-genetic factors on the relationship between milk yield at the first control milking and in different periods of lactation

S u m m a r y

A total of 57 883 lactations of cows from herds located in the Pomerania and Kujawy regions were investigated. The cows calved during 1999-2003. The CORR procedure of the SAS packet was used in the statistical calculations. A highly positive and significant relationship was found between milk yield at the first control milking and milk yield for 100, 200, 305 days of lactation and full lactation. This relationship decreased with longer lactation. As the period between calving and first control milking increased, the relationship between milk yield found on the control day and milk yield obtained for the first 100, 200, 305 days of lactation and full lactation also increased. Additionally it was found that in the second lactation cows as well as summer- and autumn-calving cows and those giving milk with somatic cell counts of less than 100 000 per ml, the relationship between milk yield at the first control milking and milk yield for 100, 200, 305 days of lactation and full lactation is stronger than that estimated for the other groups.