

Dependence of the effect of performance traits of cows and breeding value of their fathers

S u m m a r y

The research was carried out based on breeding value of 18 bulls and performance traits of their 257 daughters from the SK Dobrzyniewo. The study covered 305-day lactations and lifetime milk yield of daughters. The numerical data were verified statistically with LSMEANS and CORR procedures (SAS). The paternal places of sire ranking regard on breeding value of index and milk yield were made. Spearman range correlation coefficient between the estimated breeding value of bulls and production in lactation and in lifetime of their daughters were estimated. The breeding value of bulls was highly significant by correlated with performance traits of their daughters. Influence of paternal place of sire ranking in respect of index of breeding value on lactation and lifetime yield of their daughters was evaluated. Bulls with the highest breeding value of index had daughters with high milk production during lactation; it was little worse for lifetime milk yield. Bulls with the highest breeding value of milk yield had daughters with high milk and protein yield but with lowest fat and protein content in milk during lactation. A discrepancy was found between the estimated breeding value of milk yield of bulls and the real lifetime milk yield of their daughters in the SK Dobrzyniewo. This calls for a modification of the currently available methods of the breeding value evaluation.