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EVALUATION OF POPULATION-GENETIC PARAMETERS OF THE BASIC PRODUCTIVE QUALITIES CHARACTERISTICS OF COWS OF DIFFERENT LINES SIMMENTAL BREED

To use the assessment of animals and the choice of the most rational ways to improve their breeding and productive qualities, it is necessary to identify genetic parameters − variability, inheritance, correlation. Breeding-genetic parameters make it possible to most fully determine the pedigree value of animals, to carry out targeted selection and choice.

We have studied the milk productivity of cows of two herds of the Simmental breed of Precarpathians and phenotypic variability, correlation, inheritance of the basic productive features in these herds. On the basis of the analysis it was found that milk production in animals of experimental herds was higher than the standard breed, and in the breeding farm "Pchany-Denkovych" for I lactation was 3000−3550 kg of milk with fat content of 3,8 and protein content 3,1−3,2 %. At the same time, the highest milk yield was obtained from the descendants of the Romulus line. For the indices of milk yield from the breeding farm "Litynske", the advantage have cows the Redada line. The analysis of the phenotypic variability of traits showed that the variation for milk yield of the cows, descendants of different lines, was significantly higher in the Pchany-Denkovych herd. The coefficients of the variation for milk yield level 22,0−26,0 %, in the breeding farm "Litynske" - 16,6−21,0 %. Contents of fat and protein variability rates in milk are lower (5,8−7,7 % fat and 4,1−6,5 % protein).

The variability of live weight of cows in two farms is at the level of 3,5−5,2 %. Thus, animals have high enough variability for farther breeding work. The correlation coefficients between milk yield and contents fat are low in size and negative in the direction, the coefficients of correlation between fat and protein level in milk are low in size and positive in the direction.