

RESEARCHES OF BREEDING VALUE ESTIMATION FOR LITHUANIAN BLACK - AND - WHITE, RED AND RED - AND - WHITE CATTLE POPULATIONS BY THE USING BLUP METHOD, FATHER AND ANIMAL MODELS

V.Juozaitienė

Summary. Comparison of genetic evaluation by BLUP method of Black-and-White and Red cattle populations in Lithuania was done. The same methodic of data classification was used. Breeding values were estimated by using sire and animal model. Heritability coefficients and genetic correlations of traits were found. Bigger heritability coefficients of milk production traits were found for Red and White-Red cattle breeds. Researches show that there are quite big number of high class bulls-reproducers in Lithuania and it is necessary to introduce BLUP method for bulls breeding value estimation.

Keywords: Animal Breeding Value, BLUP method, genotype, heritability.