

Effect of upgrading the Polish Improved White goat with the Boer goat on reproduction traits and body weight at birth

S u m m a r y

The research was carried out on 236 dams and 417 kids of Polish Improved White goat and its crossbreds from upgrade crossing with Boer goat (6 genotype groups in total). Reproduction indicators and body weight at birth depending on genotype, litter size and sex of kids were examined. It is concluded that supplanting crossing of Polish Improved White goat with Boer bucks does not affect the changes in levels of both fertility and prolificacy, but causes the increase of values of survivability and rearing of kids as well as body weight of crossbreds containing Boer goat in genotype in opposite to Polish Improved White kids. Survivability and body weight at birth of kids occurred to be the highest in the singles and the lowest – in the triplets. Also, the twins represented a high degree of survivability. Generally, some problems with rearing of kids born as quadruplets were indicated, nevertheless this statement needs to be proved by further research.