

Roman Niżnikowski, Witold Rant, Dominik Popielarczyk,
Ewa Strzelec, Barbara Czarniak

The influence of chosen factors on reproductive traits and growth rate of Żelazna type Polish Lowland Sheep

S u m m a r y

Evaluated herd of Żelazna ewes reached a high level of reproductive traits especially in respect to average litter size (1.82 ± 0.58). It was achieved due to favourable litter size distribution with a high proportion of twins (31.75% singles, 62.42% twins, 5.30% triplets and 0.26% of each – quadruplets and quintuplets). With regard to lamb rearing traits better results of rearing were found in lambs originating from single and twin litters than from greater litters. Effect of sex on rearing results was statistically insignificant. In case of body weight, and daily weight gains superiority of singles over lambs from greater litters was observed. However, triplets indicated lower body weight than twins only at birth and at the age of 28 days.