

THE EFFICIENCY of INDUSTRIAL CROSS BREEDING in the SHEEP BREEDING

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The aim of the research was the determination of the effectiveness of the using of meat siring rams of the texel (F_1T) and olibs (F_1OI) breeds for improvement of the meat productivity and reproductive capacity of the Askanian Meat-and-Wool breeds of the Dnipropetrovsk Type (AMD) under the conditions of Dniper region.

It was established that among the AMD ewes, the positive result of artificial insemination was 95%, which is 2-4 absolute percent less, compared to hybrid genotypes. The fertility rate of the created genotypes is in the range of 123.7-131.3%.

Among the ewes of AMD breed, only 19.3% had two or more lambs in the litter. The number of the prolificacy ewes of F_1T and F_1OI breeds, respectively, is 24.5 and 26.0%, which indicates their good adaptability to the environmental conditions.

In terms of absolute growth up to 4 months of age, the crossbred ram lambs of F_2T and F_2OI lines exceeded the purebred peers of AMD breed by 31.4 and 11.4%, respectively.

A significant advantage according to the data of the live weight before slaughter was established of lambs F_2T and F_2OI over the purebred peers of AMD breed by 7.7% ($p < 0.05$) and 4.3%, respectively. The slaughter weight of the ram lambs of F_2T line exceeded the purebred peers of AMD breed by 16.4% ($p < 0.05$) and F_2OI by 8.7% ($p < 0.05$), respectively.

The ram lambs of hybrids and olibs breeds had the highest slaughter yield and the yield of carcasses, these indexes were 50.5 and 49.3 and 48.7% and 47.4%, respectively.

The hybrid gimmers of F_2T by the clip of greasy and washed wool outperformed purebred counterparts of AMD breed by 4.7 and 6.7%, respectively. The gimmers of F_2OI had a smaller clip of greasy wool compared to purebred peers of AMD and F_2T breeds by 14.2 ($p < 0.01$) and 18.0%.

On the whole, the hybrid youngsters were characterized by higher energy growth, survival and meat productivity. The result of a comprehensive evaluation of the productive features of the hybrids under study proves the expediency and high effectiveness of the use of crossing the ewes of the Askanian Meat-and-Wool breed of the Dnepropetrovsk Type with the siring rams of the Texel and Olibs breeds.

Keywords: sheep, industrial crossing, Texel, Olibs, crossbreeds.