

# CREATION BY CROSSBREEDING OF A NEW MEAT BREED WITH QUALITIES COMPARABLE TO SPECIALIZED BREEDS IN THE WORLD

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## Abstract

The research was carried out at Research and Development Institute for sheep and goat breeding (RDISGB) Palas Constanta by creating meat hybrids obtained from crossing the Rouge de L'Ouest and Texel breeds with the Prolific Palas breed. Morpho-productive and breeding indices were determined in hybrids compared to the Prolific Palas breed. The hybrid sheep of the two crossbreeding variants ( $F_1$  Rouge de L'Ouest x Prolific Palas breed and  $F_1$  Texel x Prolific Palas Breed) had less prolificacy than the Prolific Palas breed, but the performance of rearing, feed conversion and carcass quality had higher values in hybrid lambs. The average daily weight gain for hybrid lambs subjected to fattening was  $302.47 \pm 8.4981$ g for the Rouge de L'Ouest x Prolific Palas breed and  $304.78 \pm 13.0869$  g for the Texel x Prolific breed. Lambs of the Prolific Palas Breed had a weight gain of  $235.47 \pm 9.4127$ g, with very significant differences from statistical point of view ( $P < 0.001$ ) compared to hybrid lambs. Also, the two crossbreeding variants had significantly better values for feed conversion, indices expressing the amount of meat in the carcass (Muscularity Index of Thigh), slaughter yield and classification of carcasses in quality classes by conformation. The obtained data clearly showed the superiority of  $F_1$  hybrids with Rouge de L'Ouest and Texel breeds compared to the Prolific Palas breed in terms of daily gain, muscularity of carcasses, slaughter yield and quality of carcasses classified according to the EUROP grid.

**Key words:** sheep, meat, new breed