

# RESEARCH ON THE INFLUENCE OF COLOR VARIETY ON BODY WEIGHT OF THE KARAKUL OF BOTOȘANI LAMBS

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## Abstract

*Research on the influence of color variety on growth intensity and body weight of the lambs of Karakul de Botoșani breed was carried out by determining their body weight from birth, after identifying the products. The assessment of the influence of the color variety of Karakul de Botoșani products on their body weight was made at birth, at 30 days, at 90 days and 180 days.*

*For the statistical processing of the study data obtained as a result of the assessment of body weight, the Microsoft Excel program was used which allowed planning, collection, access, preparation, data management and presentation of results and version 26 of IBM SPSS (Statistical Product and Service Solutions) software. Continuous variables were analyzed for normality and then expressed by mean  $\pm$  standard deviation, minimum and maximum (Popa M, 2008). The Student's t test (when comparing 2 groups) and the ANOVA One-Way method (for multiple groups) were used to compare the averages of the parameters between groups. A value of statistical significance coefficient  $p < 0.05$  was considered significant.*

*In order to highlight the results obtained regarding the body weight of Karakul de Botoșani products, they were analyzed both from the point of view of the color variety of which they are part but also from the point of view of their sex.*

*Following the research on the influence of color variety on the body weight of young sheep of the Karakul de Botoșani breed, the results obtained indicated a statistically significant link between the body weight of the products and the color variety of which they are part. The data obtained indicated higher average body weights in the batches with products of the black varieties (5.35 kg at calving, 13.30 kg at 30 days, 28.40 kg at 90 days and 37.90 kg at 180 days) compared to those obtained from batches of white varieties (4.23 kg at calving, 9.80 kg at 30 days, 17.10 kg at 90 days and 25.80 kg at 180 days).*

**Key words:** growth intensity, body weight, lamb, Karakul de Botoșani