

THE PREDICTION of LEVEL PRODUCTIVITY of the SHEEP of TSIGAI BREED

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To determine the information content of growth and development indexes in predicting of the level of productivity Tsigai breed of sheep, the indicators of average and daily relative growth rates, the intensity of the formation, the uniformity and strain of growth of the rams and gimmers in aimed growth conditions, and rams and gimmers, grown in the general economical conditions, were identified.

The dynamics and direction of changes of the value of different indices calculated according to the parameters of productivity, in the simulation of the level of development of live weight at different ages were studied. With the growth of index of live weight in the age of 4 months and its value unchanged at the age of 8 months index Δt increases, which characterizes the intensity of the formation of the animals in a linear relationship. That is, an increase in live weight at 50% is characterized by a large Δt 60%.

The maximum value of the intensity index is shown with vigorous growth of lambs before weaning. After weaning with significant weight gain, this figure has minimum value. With vigorous growth of the animal during the entire period of development, the studied indexes have the arithmetic mean from the maximum to the minimum. Value of the index uniformity growth (I_g) is a result of the ratio of the growth rates before and after weaning.

Studies have suggested that more reliable to predict the level of productivity of sheep according to the indices of relative growth, uniformity and strain of growth, this conclusion is also confirmed by the level of the correlation connections between productivity indicators and the indices, which have been studied. The best animals, selected by 8 months of age largest Δt index, have had the clip of wool significantly higher than their peers and did not differ from them by larger live weight. A similar impact had selection according to the index of strain of growth. And only the selection on the index of the uniformity of growth has had a significant impact on the value of live weight.

Thus, the uniformity index is the most effective criteria for predicting the productivity level in the selection of sheep in the 8 months of age.

Keywords: Tsigai sheep, prediction, the intensity of formation, uniformity and strain of growth.