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DAIRY PRODUCTIVITY AND INDICATORS OF QUALITY AND SAFETY OF MILK OF ALPINE AND SAANEN GOATS**L. Pirova, L. Kosior, I. Lastovska, O. Borshch**candidates of Agricultural Science, associates professor
Bila Tserkva National Agrarian University, Ukraine

Dairy productivity and indicators of milk quality and safety of Saanen and Alpine goats have been studied.

It was found out that milk yields of Saanen goats were higher. In terms of mass fraction of fat and protein in milk, Alpine goats prevailed over Saanen ones. The content of somatic cells and total bacterial contamination of goat's milk met the requirements of DSTU 7006: 2009.

Key words: milk yield, mass fraction of fat, mass fraction of protein, bacterial contamination, quantity of somatic cells.

Dairy productivity of goats varies considerably depending on the breed, feeding and housing conditions, age of animals, month and season of lactation, the quantity of kids at lambing and methods of young-stock breeding [1]. Thus, the Saanen goats have the highest milk productivity [2].

A special role in the formation of milk productivity of goats and display of their genetic potential is assigned to milk production technology. An important factor is the technology of milking goats [3,4]. The display of goats' milk productivity is also influenced by natural and climatic conditions [5].

The main role in the bacterial contamination of milk from healthy animals, sanitary conditions of its production and primary treatment, including cooling are influenced [6]. Goat's milk during milking has low bacterial contamination (from 16

to 40 thousand/cm³). If milk is stored unrefrigerated during 7 hours, its bacterial contamination does not exceed 125–312 thousand/cm³, and milk, cooled immediately after milking, is well preserved during 20 hours and its bacterial contamination does not exceed 83 thousand/cm³ [7].

One of the main criteria for milk evaluation is the quantity of somatic cells. Unlike cow's milk, the quantity of somatic cells in goat's milk is affected by both infectious and non-infectious factors. For example, this indicator increases at the end of lactation and with the age of the animal, after multiple lambing. Significant impact on the amount of milking per day, seasonality and feeding also takes place. Under machine milking the level of somatic cells is lower than at manual milking [8, 9].

The aim of the research was to evaluate the milk productivity and indicators of

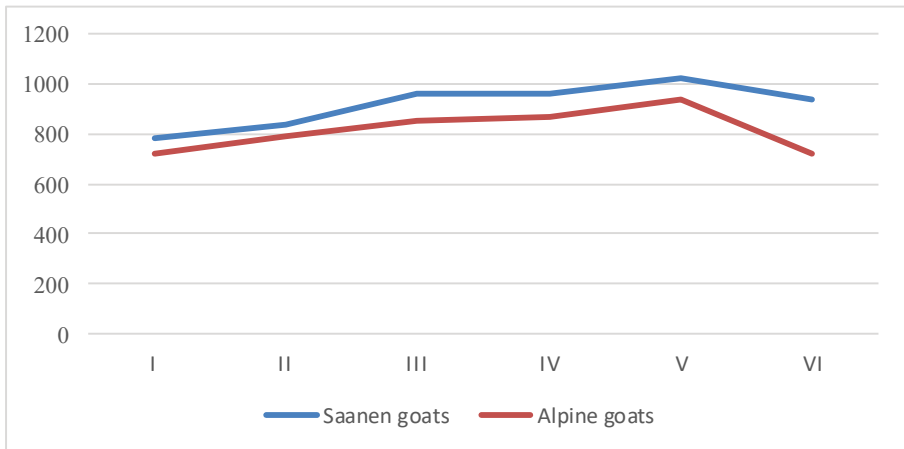


Fig. 1. Lactation curve of goats' milking of Saanen and Alpine

milk quality and safety of Saanen and Alpine goats.

Scientific and economic experiment was conducted at the pedigree breeding unit “Golden Goat” of Kirovohrad region.

The material of the study was milk productivity and goat's milk taken during control milking. The milk productivity of goats was determined by conducting of monthly control milking with the sample draw of individual average samples of milk and the study of its physicochemical composition.

Assessment of the quality and safety of goat's milk was carried out in accordance

with DSTU 7006: 2009 “Goat's milk. Primary products” [10].

Results of the research. The results of the research show that the Saanen ewes exceeded milk yield of the Alpine ewes by 62.2 kg at the first lactation, at the second one – by 50.8, at the third one - by 110.9, at the fourth lactation - by 199.1, at the fifth one - by 382.4 and at the sixth one - by 157.2 kg (Fig. 1).

The highest milk yield was observed at Saanen and Alpine ewes during the fifth lactation - 1023.3 kg and 940.9 kg, respectively. At ewes of the sixth lactation, a decrease in lactation activity was observed at goats of both breeds.

Table 1.
Chemical composition of goat's milk

Indicator	Breed		Requirements of DSTU 7006: 2009
	Saanen	Alpine	
Degree of purity according to the standard, group	I	I	I
Mass fraction of fat in milk, %	3.62±0.013	3.74±0.024	≥3,5
Mass fraction of protein in milk, %	3.15±0.013	3.28±0.017	≥3,0
Somatic cell content, thousand/cm ³	554	557	≤500–≤800
Total bacterial contamination, thousand/cm ³	127	125	≤100 –≤500

It has been established that the mass fraction of fat and protein in the milk of Saanen and Alpine goats complied with DSTU 7006: 2009 "Goat's milk. Primary products"(Table 1).

In terms of purity, goat's milk is included in the first group. In terms of the quantity of somatic cells and total bacterial contamination, the milk of goats of both breeds met the first grade according to the requirements of DSTU 7006: 2009.

Depending on lactation, the mass fraction of fat in the milk of Alpine goats exceeded Saanen goats by 0.23–0.28%, protein - by 0.08–0.15%.

Thus, the milk productivity of Saanen goats exceeded Alpine ewes. The fat and protein content of milk was higher at Alpine ewes. Indicators of quality and safety of goat's milk met the requirements of DSTU 7006: 2009 "Goat's milk. Primary products ".

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