

MILK YIELD AND COMPOSITION VARIATIONS OF LATVIAN BREED GOATS DEPENDING ON THE LENGTH OF THE KIDS SUCKLING PERIOD

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The aim

- ▶ The aim of the study is the assessment of milk yield variability and milk composition for goats with different kid suckling period within 7 days after kid weaning, as well as the influence of a suckling period on productivity in lactation

Materials and Methods

- ▶ The place of the research: the milk Latvian local goat herds of milk
- ▶ During the research were analysed: the results of 60 dairy goat
- ▶ A1 group weaned first day, milk samples the - 6th, 7th, 8th, 11th and 13th day of lactation;
- ▶ A30 group weaned 30 th day, milk samples the - 31st, 32nd, 33rd 36th, 38th day of lactation;
- ▶ A60 group weaned 60 th day, milk samples the - 61st, 62nd, 63rd, 66th. and 68th day of lactation

Materials and Methods

Analyzed goat milk productivity traits:

- ▶ **Milk yield, kg;**
- ▶ **Fat content (%);**
- ▶ **Protein content, (%);**
- ▶ The research data were processed using the programmes SPSS version 14.0 and MS EXCEL2010;
- ▶ We used the describing statistics indicators – the mean and the standard error of the mean to analyse the data
- ▶ We used the coefficient of variation (CV %) to describe the fluidity

RESULTS

The average milking days, milk yield, milk composition and daily milk yield in closed lactation of the research goats.

Trait	Research group		
	A1	A30	A60
Milking days	297.2 ± 58.25^a	294.2 ± 62.67^a	279.3 ± 82.45^b
Milk yield (kg)	455.7 ± 4.18^a	439.3 ± 4.87^a	407.3 ± 10.64^b
Fat (%)	4.45 ± 0.12	4.57 ± 0.09	4.39 ± 0.10
Protein (%)	3.23 ± 0.03	3.21 ± 0.04	3.19 ± 0.03
Milk fat + protein (kg)	35.5 ± 0.61^a	34.2 ± 0.53^a	30.8 ± 0.86^b
Daily milk yield (kg)	1.53	1.49	1.46

^{a,b} – P<0.05

Conclusions

- ▶ The significantly highest milk yield 455.7 kg, and the sum total of milk fat and protein content 35.5 kg, was obtained from goats when kids were weaned post partum (A1), the lowest milk yield 407.3 kg and milk fat and protein amount 30.8 kg was obtained from goats suckling kids for 60 days ($P < 0.05$).
- ▶ The variability of milk yield of the research herd after kid weaning in 5 successive recordings we observed that the variability of the milk yield ranged from 2.8 to 19.6%.
- ▶ Higher variability of the milk composition components presented fat content (from 1.7 to 31.8%).
- ▶ The variability of protein content for all the groups was similar.