

Milk urea level of dairy cows in Northern Kazakhstan

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The goal of the study was to introduce milk urea indicator in Republic of Kazakhstan by the experience of USA and Canada milk labs.

The following objectives were set: to carry out control milking in dairy farms; to analyze the composition of milk; to estimate the relationship between daily milk yield and the milk urea content

The object of the study was Holstein cows at the Agrofirm Rodina LLP and Esil-Agro LLP of Akmola region

Analyzes were carried out at an accredited milk laboratory on a CombiFoss FT + milk analyzer Milk productivity was determined by the monthly control milking. Milk samples were taken in accordance with ICAR requirements



Table 1: Milk productivity and composition of dairy herds in the Akmola region of the Republic of Kazakhstan

Nº	Farm	305 days lactation yield, kg	Service period, days	Fat, %	Protein, %	Milk Urea, mg %
1.	«Rodina Agro Farm» LLP	7446,0±56,9	175,0±3,97	4,44±0,04	3,63±0,01	34,25±0,29
2.	«Esil Agro» LLP	7456,0±86,0	160,0±5,8	3,54±0,04	3,39±0,02	11,7±0,18

It is concluded that in Northern
Kazakhstan dairy farms, milk urea
content can serve as an indicator of
protein and energy in cows diet and
allow rational use of expensive protein
feed, maintain animal health and
increase production efficiency.