



SOMATIC CELLS COUNT IN DAIRY FARMS OF NORTHERN KAZAKHSTAN

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The **Research Goal** is to test the somatic cell counting program in dairy farms of Northern Kazakhstan

The **Research Objectives** are following:

- to carry out control milking in dairy farms;
- to analyze the content of somatic cells;
- to give recommendations on somatic cell program

The **object** of the study was Holstein cows at dairy farms of Akmola, Kostanai and North Kazakhstan regions

Table 1: Content of somatic cells

Region	Herd, number of animals	Somatic cells, cells/mL		
		M ± m	Min	Max
Akmola	1294	501,8±101,5	315,8	665,4
Kostanay	1660	538,5±156,1	382,4	694,7
North Kazakhstan	460	532,6±191,0	341,6	723,6

The **results of the study showed that** the number of somatic cells in cow's milk ranged from 501 to 532 thousand cells per ml. milk.

Based on these figures and according to study of Wilson D.J. and others, we can decide that from 16 up to 32% of the livestock have udder health problems. As a result, each farm loses up to 18% of milk production, which in money terms can reach 100 - 150 thousand dollars a year, meaning that average livestock is 500-600 animals