

MINERAL SUPPLEMENTS INFLUENCE FOR DAIRY COWS UDDER'S WELLNESS

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Abstract. The objective of our studies was to investigate the effect to reduce somatic cells count in the milk and cow's blood biochemical tests before giving the supplements and after giving the microelements. The research was performed in a dairy farm on 2014–2015. The cows were divided into 2 groups. For the 1st group of cows (n=40) we gave mineral supplement Supra-Lak For the 2nd group of cows (n=40) we gave mineral supplement Calcivit. The researches of blood (*Calcium (C)*, *Phosphorus (P)*, *Magnesium (Mg)*, *Copper (Cu)* and *Zinc (Zn)*) and somatic cells count were made 2 weeks before dry-off, 2 weeks after calving and 5th lactation month. The blood samples were to Ca rate corresponded to 83.3 percent cows ($p<0.05$). P rate matched - 72.5 percent During the period of these materials has increased from 13.3 - 15.3 per cent. The highest concentration of Cu 2 weeks after calving 80 percent. tested cows, and the lowest - 5th lactation month - 45 percent. Zn positive balance of fixed 5th lactation month to 75 per cent ($p<0.05$). The lowest 2 weeks before dry-off - 25 percent cows. The use of organic additives and antioxidants, and compared them with simple mineral additives mastitis occurred in 26 percent cows and set 16.23 percent somatic cell counts, than with a simple mineral supplements. Using mineral supplements Supralak, mastitis decreased by 14 percent ($p>0.05$).

Keywords: somatic cells count, mineral supplements, cows