

THE INFLUENCE OF SILAGE TYPE AND QUALITY ON RUMEN MICROBIAL PROTEIN SYNTHESIS

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Summary. The influence of silage type and its quality on rumen microbial protein synthesis was tested. The samples of silage of different type and quality were collected: permanent grass silage (S-3, S-2) of the 1-stand 2-nd classes of quality and maize silage (S-1) of 3-ed class of quality. Those samples of silage were incubated with rumen fluid in continuous culture system SIMCO.

The experiment have shown that efficiency of rumen microbial matter synthesis was greater ($p < 0,001$) when grass silage was fermented compared to microbial matter synthesis when maize silage was fermented in SIMCO system. The rumen microbial matter synthesis was more efficient ($p < 0,001$) when grass silage of high quality (1 class of quality) was fermented compared to microbial matter synthesis in case when grass silage of poor quality (2 class of quality) was fermented in SIMCO system.

Keywords: cow, rumen, microbial protein, type and quality of silage.