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Czech Journal of Animal Science

Fatty acids and composition of their important groups in milk fat of Czech Pied cattle

M. Pešek, E. Samková, J. Špička

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In 2003, 2004 and 2005 milk fat composition was determined three times in 55 dairy cows of Czech Pied cattle housed in a byre with stanchions and fed under conditions usual on Czech

production farms. Fatty acids were determined by a gas chromatographic method, 26 acids out of the total 37 acids observed in chromatograms were identified. The highest proportions were observed for palmitic acid ($29.25 \pm 2.98\%$), oleic acid ($24.47 \pm 3.27\%$), myristic acid ($12.14 \pm 1.80\%$) and stearic acid ($8.91 \pm 2.44\%$). The proportions of saturated, unsaturated and monounsaturated fatty acids were 64.71 ± 4.18 , 31.96 ± 4.20 and $27.45 \pm 3.42\%$ of total acids, respectively. The total proportion of nutritionally undesirable lauric, myristic and palmitic acid was $45.26 \pm 4.77\%$, while that of the desirable group of polyunsaturated fatty acids was $4.51 \pm 1.09\%$. The observed relatively wide ranges of the individual groups of fatty acids indicate that it is possible to improve the milk fat composition in Czech Pied cows.

Keywords:

Czech Pied cattle; milk fat; fatty acid proportion

[[fulltext](#)]

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