VÚŽV
Institute of Animal Science

DEPARTMENT OF CATTLE BREEDING
Economics of cattle production

Determining and defining economic context of cattle breeding in the Czech Republic and the EU.

OVERVIEW

The main research activities of this group are focused on the economic indicators of cattle breeding and on the EU common agricultural policy.

The statistical information of breeding of dairy and beef cattle is regularly analysed and evaluated with emphasis on the production economy (yield, prices, costs, etc.). The results are compared with EU member states.

As part of our activities, our annual milk cost survey is being conducted, where since 2006 we collect and evaluate data from agricultural operations in the Czech Republic with the aim of defining the economic context of milk production. The collection and evaluation of production and economic indicators is also taking from 2013 for beef cattle.

Free economic software FarmProfit is available for breeders, which serves to calculate the economic indicators of the basic agriculture sectors. Software is regularly updated and further developed. Program „Herd Structure Simulation" simulates on a monthly basis the dynamics of a dairy herd population, including the future make-up of the herd. At the same time, Czech versions of US economic programs were launched „The Economic Value of a Dairy Cow“ and „Value of Reproductive Improvement“.

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KEYWORDS

cattle breeding, economy, costs, revenues, profitability, subsidies, FarmProfit

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MAIN TOPICS & PROJECTS

- Cost survey of milk production in the Czech Republic
- Determining and defining profitability of suckler cows herds and bulls fattening in the Czech Republic
- Model evaluation of the economic impacts of the application of the EU common agricultural policy
- Analysis of subsidies and their impact on cattle breeders economy
- Management and development of economic software "FarmProfit"
- Providing the program „Herd Structure Simulation“ and Czech version of american economic programs „The Economic Value of a Dairy Cow“ and „Value of Reproductive Improvement“
- Solution of project from the National Agency for Agricultural Research of the Czech Republic number QK1910242: Elimination of risk factors for dairy cow health and reproduction using systems of automatic measurement and collection of data

KEY PUBLICATIONS

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Krpálková, L., Cabrera, V.E., Kvapilík, J., Burdych J., Crump, P. 2014. Association between age at first calving, rearing average daily weight gain, herd milk yield and dairy herd production, reproduction, and profitability. Journal of Dairy Science. 97:6573-6582

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