

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. Our website provides up-to-date information on price developments in the Czech Republic and the EU.

As part of our activities, our annual milk cost survey is being conducted, where since 2007 we collect and evaluate data from agricultural operations in the Czech Republic with the aim of defining the economic context of milk production.

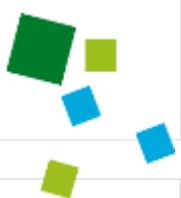
Free economic software FarmProfit is available for breeders, which serves to calculate the economic indicators of the basic agriculture sectors. Software is regularly updated and further developed. Program „Herd Structure Simulation“ simulates on a monthly basis the dynamics of a dairy herd population, 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“.

GROUP MEMBERS

Scientific Staff

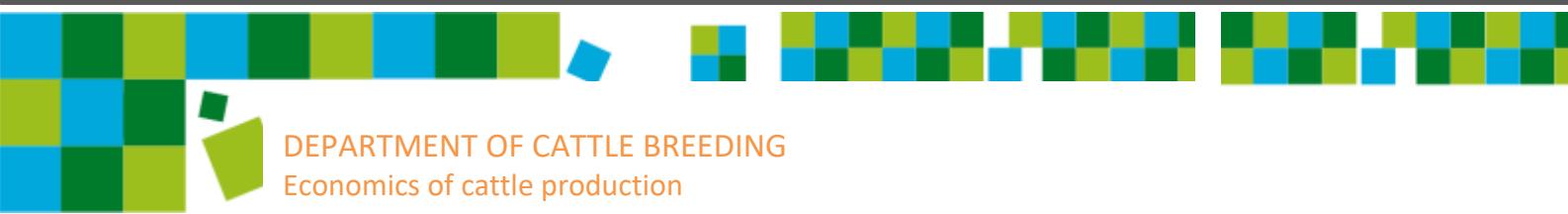
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group leader



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
- Development of purchase prices of milk and slaughter cattle in EU countries
- Analysis of subsidy titles in the new CAP and their impact on the profitability of a cattle breeding
- 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“
- Cooperation on the creation of cattle breeding yearbooks
- Solution of projects from the National Agency for Agricultural Research of the Czech Republic:
 - *QK1910242: Elimination of risk factors for dairy cow health and reproduction using systems of automatic measurement and collection of data*
 - *QK21010038: Early prediction of health risks and reproduction disorders in dairy cows using the extended spectrum of parameters obtained from milk composition analysis*
 - *QK21020304: The influence of the level of livestock management and prevention of diseases, including biosecurity, on the reduction of antimicrobials usage and the spread of antimicrobial resistance*
 - *QK23020085: New approaches in piglet production with focus on welfare, environmental protection and production economics*

KEY PUBLICATIONS

Syrůček J., Bartoň L., Burdych J. 2022. Break-even point analysis for milk production – Selected EU countries. Agric. Econ. – Czech, 68 (6). 199–206.

Syrůček, J., Bartoň, L., Burdych, J. 2022. Hodnocení produkčních ukazatelů u podniků s chovem holštýnského skotu. Černostrakaté novinky 3/2022. 24-29.

Syrůček, J., Burdych, J., Bartoň, L. 2022. Ekonomické ukazatele vybraných podniků s chovem dojeného skotu v ČR v roce 2021. Náš chov, roč. 82, č. 8, str. 16-21.

Syrůček, J., Štolcová, M., Bartoň, L. 2022. Ekonomika produkce mléka v ekologických systémech chovu dojeného skotu. Náš chov, roč. 82, č. 4, str. 5-8.

Syrůček, J., Bartoň, L. 2021. Zpěněžování játečného skotu v ČR a v EU. Náš chov, roč. 81, č. 9, str. 52-56.

Kvapilík, J., Bartoň, L., Syrůček, J. 2021. A meta-analysis and model calculations of economic indicators in suckler cow herds. Bulg. J. Agric. Sci., 27 (2), 279–288.

Syrůček, J., Bartoň, L. 2021. Intenzita chovu skotu, výroby mléka a produkce hovězího ve světě, v EU a v ČR. Náš chov, roč. 81, č. 5, str. 5-8.

Syrůček, J., Bartoň, L. 2021. Zaměstnanost a pracovní náklady u podniků s produkcí mléka v ČR. Náš chov, roč. 81, č. 2, str. 12-18.

Syrůček, J., Bartoň, L. 2020. Výroba mléka, produkční a reprodukční ukazatele chovu dojených krav v ČR. Náš chov, roč. 80, č. 9, str. 20-24.

Syrůček, J., Bartoň, L. 2020. Agrární zahraniční obchod ČR s komoditami živočišné výroby. Náš chov, roč. 80, č. 8, str. 16-20.

Syrůček, J., Burdych, J., Bartoň, L. 2020. Ekonomická efektivita výroby mléka v ČR v roce 2019. Náš chov, roč. 80, č. 7, str. 14-20.

Syrůček, J., Burdych, J., Bartoň, L. 2020. Význam a využití ukazatele IOFC v managementu stáda dojeného skotu. Náš chov, roč. 80, č. 1, str. 9-12.

Syrůček, J., Bartoň, L. 2020. Covid-19 a trh s mlékem a masem. Zemědělec, roč 28, č. 47/2020, str. 36.