

RESEARCH ON MILK PRODUCTION POTENTIAL IN COWS FROM A DAIRY FARM: ANALYSIS AND PERSPECTIVES

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Abstract

This paper presents an analysis of milk production and quality at the Moara Domneasca farm between 2020 and 2023, with a focus on key parameters such as total bacterial count (TBC) and somatic cell count (SCC). The data reveals a significant increase in milk production in 2023, after a slight decline from 2021 to 2022. The highest production occurred in May 2021, while November 2023 recorded the lowest. In terms of quality, the milk generally met safety standards, with TBC and SCC values staying below legal limits. However, occasional spikes in SCC were noted in early and mid-2023 due to health issues in some cows, whose milk was excluded from the market. The study suggests stricter veterinary controls, careful feed management based on lactation stages, and enhanced milking hygiene to ensure consistent production and maintain milk quality. These measures are crucial for reducing bacterial contamination and preventing diseases like mastitis, ensuring high standards in dairy production.

Key words: cow, milk, production. quality, quantity