

EFFECTS OF *CAMELINA SATIVA* MEAL ADDITION IN QUAILS' FEED

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Abstract. *The integration of Camelina sativa in Romania and its cultivation on the lands located in the Moara Domnească Educational Farm, Ilfov county, was carried out in order to obtain an ecological, sustainable culture that would support the protection of the environment without polluting the air, surface waters, underground waters and the soil. In the current context of the circular economy, we integrated camelina meal, the Mădălina variety, into quail feed. The study was performed on a sample of 200 birds for 14 days in optimal temperature and humidity conditions, thus researching different integration options such as the farmer's simple feed option, mix of camelina meal with farmer's feed, mix of probiotic-enhanced camelina meal and feed used by the farmer. Quails fed camelina meal-enhanced forage and probiotic had 4.06% higher productivity than those fed camelina meal-enhanced forage and 11.30% higher productivity than those fed only forage. No major changes were observed in quail births and deaths.*

Keywords: *Camelina sativa*, circular economy, camelina meal, biotechnologies, quails

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1. Introduction

With the integration of Romania into the European Union and the implementation of new environmental protection strategies at the global level, numerous environmental problems were highlighted such as global warming, reducing the carbon footprint, the integration and intensification of ecological agriculture, the use of alternative, renewable and ecological fuels, the practice of new agricultural technologies that are friendly to the environment, the protection of soil, water, the water table but also the air, including in agricultural practices, the integration of plants in a sustainable circular economy in which their components can be included in various fields of activity with minimal pollution impact or that even bring benefits to the environment.

The research was carried out with the goal to capitalize the *Camelina sativa* oleaginous plant, more precisely the Mădălina camelina new variety, in order to

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