American Journal of Biodiversity
https://biojournals.us/index.php/AJB
ISSN: 2997-3600

Formation and Development of Innovative Technologies in Livestock Farming

Nortasheva M.A., student Jumanazarova M.E. F.R.Sattorov

Received: 2025 25, Jan
Accepted: 2025 5, Feb
Published: 2025 14, Feb

Annotation: In this article, meat and milk constitute the main share of products produced in this sector. Therefore, it is necessary to develop this sector with new innovative technologies and on a scientific basis, to improve the productivity, breeding, fertility, and technological characteristics of breeding cattle, especially pedigree cattle imported from foreign countries in recent years.

Keywords: Population, fodder crops, food, milk and meat, intensive, oats, barley, rapeseed. hydroponics, intensive technology, automated equipment.

INTRODUCTION

The resolution of the President of the Republic of Uzbekistan No. PQ-120 dated February 8, 2022 approved the program for the development of the livestock sector and its branches in the Republic of Uzbekistan for 2022-2026. This resolution aims to establish priority goals and objectives for the accelerated development of the livestock sector and its branches, sustainable provision of the population of the republic with food products and expansion of production opportunities. In addition, the Strategy for the

Development of Agriculture was adopted, which determines the priority areas of agricultural development until 2030, including the introduction of agro-innovative ideas, increasing labor productivity and improving product quality.

Goals and objectives of the study In order to strengthen the feed base in livestock farming and its branches and increase the potential for food production, it is necessary to use new innovative technologies to further expand and develop the livestock sector and increase the volume of product production based on a cooperative system.

It is impossible to increase the efficiency of agricultural enterprises, especially in the livestock sector, without introducing innovative technologies. In recent decades, there has been an active formation and development of a technological structure (process), the basis of which is biotechnology, genetic engineering, information and communication technologies, fine chemistry, nanotechnologies, new materials, alternative energy, etc. It is necessary to automate and modernize the zootechnical process in collecting, analyzing and processing data results, as well as recording breeding work.

The development of innovative technologies in livestock farming has its own subtleties, and it takes a long time to master them. Thus, it takes 30 to 40 years to create new breeds and types of livestock today. The acquisition of genetically updated breeding herds of imported pedigree cattle and the creation of our own reproductive breeding farms are associated with the acceleration of the pace of breeding selection, which is associated with the effective use of the embryo transplantation method from elite cows.

Research results Embryo transplantation is an innovative biotechnological method that allows you to create a large number of highly productive animals and improve the animal group by developing multiple embryos from the uterus of high-value breeding animals (donors) and then transferring one or more embryos to animals of lower value (recipients), thereby creating a large number of highly productive animal populations. The current demand dictates that the only way to sustainably develop innovative technologies is to use the results of scientific research to create fundamentally new types of products, to form and develop an innovative environment in the country associated with the creation and application of new innovative technologies. When using functional feeds in animal nutrition, they can significantly save money, and also have a positive effect on the physiological state of their growth and development, increase the high reproductive properties of cattle, and increase the efficiency of the body's assimilation of various nutrients. Therefore, since innovative technologies embody all methods and means, it is necessary to completely modernize production in livestock farming and apply innovative technologies.

Conclusion

In conclusion, it is impossible to increase the economic efficiency of agricultural enterprises (small businesses, private entrepreneurs and farms) in the livestock sector without introducing innovative technologies. Because, taking into account the rapid

growth of the population, it is necessary to use highly efficient technologies to meet their demand for meat and dairy products.

Literatures

1. Nortasheva, M., Suyunov, S., Bekqulov, M., Tuyg‘unov, M., & Zulfiqarov, K. (2023). Tajriba Guruhidagi Sigirlarning Laktatsiyasining Kechish Xususiyatlari. *Miasto Przyszłości*, *42*, 189-191.
2. Медведев, А. Ю. ТЕХНОЛОГИЧЕСКОЕ ОБОСНОВАНИЕ ПРОИЗВОДСТВА ОРГАНИЧЕСКОЙ ПРОДУКЦИИ В МОЛОЧНОМ СКОТОВОДСТВЕ ДОНБАССА.
3. Nomozov, H. I., & Nortasheva, M. (2023). Narbayeva MK GOLSHTIN ZOTLI SIGIRLARNING HAR 100 KG TIRIK VAZN HISOBIGA SUT MAHSULOTI ISHLAB CHIQARISH KURSATKICHLARI. *AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI*, 25-30.