

INNOVATION IN THE PRODUCTION OF FEED AND FEEDING OF DAIRY COWS

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Intensive use of dairy cattle and the need to maintain high quality standards of the obtained raw material, requires constant modernization of the production of feed and cow feeding.

The most important role in modernizing and improving the efficiency of feeding dairy cattle is to obtain high quality feed adapted to the cow's dietary needs. The introduction of new technologies (TMR / PMR) in cow nutrition contributed to a large extent to the increase in milk yield of cows, improved feed utilization and increased commerciality of farms specializing in milk production. The specialization of farms in milk production and the observed increase in the number of herds is conducive not only to the introduction of innovations in cow nutrition, but also to mechanization and automation, and even robotisation of the entire milk production cycle. The use of biotechnology achievements, including new generation products obtained through biotechnology, in the production of feed and cow nutrition, is one of the determinants of progress in balancing the specific nutritional needs of dairy cattle. The use of these products in the nutrition of dairy cattle, contributes, among others to stimulate the milk yield of cows, a beneficial effect on the uptake of dry matter and rumen metabolism, as well as on the health condition of animals. The introduction of TMR / PMR technology in the nutrition of cows has also contributed to the development of automatic feeding and feeding systems. In feeding the cows in PMR technology, automatic feed dosing stations have been additionally introduced. Also in the case of milking robotics, a system of automatic dosing of concentrate feed or feed additives in milking robots was used.

The observed constant increase in the number of herds in farms rearing dairy cattle and the need to increase the efficiency of this branch of animal production will encourage the introduction of new solutions, which will have a positive impact on the effectiveness of milk production in our country.