«Agribusiness, Environmental Engineering and Biotechnologies»
AGRITECH-2019

«Duration of economic use of lithuanian heavy draft stud mares»

• According to the data of E.D. Chirgin, in recent years, the milk productivity of mares has reached 4,516-5,532 kg of milk per 210 days of lactation. Mass fraction of fat in mares' milk ranged from 1.60 % to 2.12 %, and the milking quality coefficient was 429.0-675.7 kg. The efficiency of heavy draft horse breeding depends on the intensity of use of the breeding stock. At the same time the duration of economic use of animals is of great importance as the duration of the use of horses provides not only economic benefits but also the breeding progress of the herd.
Solution methods

• The object of research is the Lithuanian heavy draft mares dropped out from the herd (n = 86). The study of the duration of economic use of mares was performed according to the data in the cards of the stud mares (Form No. 2-1) dropped out from the herd of the koumiss farm. To determine the lifetime productivity of horses the analysis of the lifetime milk yield was carried out by summing up milk yield for all the lactation periods. There was the calculation of the milk yield per 1 day of lactation and per 1 day of the duration of economic use. The resulting data were statistically processed using standard methods of biological statistics on the PC using Microsoft Excel.
Conclusions

Figure – Age dynamics of milk productivity of mares

• Thus, the duration of the economic use of Lithuanian heavy draft mares on the koumiss farm of the breeding plant is 11.5 years, during this period the animals give 11,047 kg of milk in the average. It should be noted that the best productive longevity and lifetime productivity belong to the daughter of stallion Sunkumas 32. The variation coefficient of the duration of the use of mares and their lifetime milk yield allow to carry out the efficient selection to increase these characteristics.
Contacts

Mari State University, Yoshkar-Ola, Russia
E-mail: holodova72@gmail.com