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DEVELOPMENT STATUS OF MEAT CATTLE IN UKRAINE

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Abstract

Analysis of the development of meat cattle breeding in Ukraine is conducted. The biggest population of meat breeds' cattle is concentrated in the north and the west of the country, where natural and climatic conditions are friendly for the establishment of meat cattle industry. It is shown that Volyn and Chernihiv areas are leaders by number of meat cattle. Nowadays 64 pedigree economies are registered in Ukraine, where 18 of beef cattle breeds are reared. Aberdeen Angus breeds are the most numeral among the imported breeds. Grey Ukrainian and Simmental of meat selection have the most representativeness from the Ukrainian breeds.

Key words: meat cattle breeding, breed, line, pedigree economy, population

Introduction

The problem of meat production is one of the most important in the agrarian sector of Ukraine. The production level of this valuable product does not meet the science-based standards of human nutrition. One of the main directions for increasing beef production is the development of specialized meat cattle herds.

The absence of specialized meat cattle herds in Ukraine, the low efficiency and high cost of imports determined the need for removal of meat breeds of cattle taking into account the conditions of soil and climatic zones. Since 1972 formation methodologies for domestic meat breeds and further development of specialized meat cattle industry have been created by the Russian scientists N. A. Kravchenko, F. F. Eisner, P. L. Pogrebniak, V. Ye. Nedava, M. V. Zubets (Zubets et al., 2002; Biloshytskyi et al., 2003). 18 breeding farms for breeding of Ukrainian meat cattle were created in different natural and geographical zones of Ukraine. Within this work Ukrainian (1993), Volyn (1994) and of Polissia (1999) meat cattle breeds were created and adopted. Znamensk, southern and Simmental meat breeds are being created. Marketable meat cattle are being developed in Polissia predetermined by natural and economic, social and environmental factors (Zubets et al., 1997; Hladii et al., 2015).

Our study was aimed at analysing the current state of meat cattle in Ukraine.

Materials and Method

Catalogues of bulls of meat breeds in 2010-2015 were used to analyze the state of meat cattle development in Ukraine (Hladii, 2015).

Results and Discussion

There are 18 meat cattle breeds bred in Ukraine such as Ukrainian meat, Volyn meat, Polissya meat, Znamensk interbreed type of Polissia meat breed, Simmental selection of meat direction, Southern meat, Gray Ukrainian, Aberdeen Angus, Charolais, Limousin, Banteng, Blond-Aquitani (Light Aquitaine), Gascon, Hereford, Kian, Men-Anjou, Pemonteze, Santa Gertrudis (Siratskyi, 2002; Yanko et al., 2003; Burkat et al., 2003).

It should be mentioned that the productivity of the cattle of meat direction was constantly decreasing from 2000 to 2010, and after some stabilization in the period 2010-2013 it decreased again and on 01.01.2015 amounted to 60.8 thousand heads (Figure 1).

The number of meat cattle in Ukraine is not evenly distributed in the different regions, and the proportion of meat

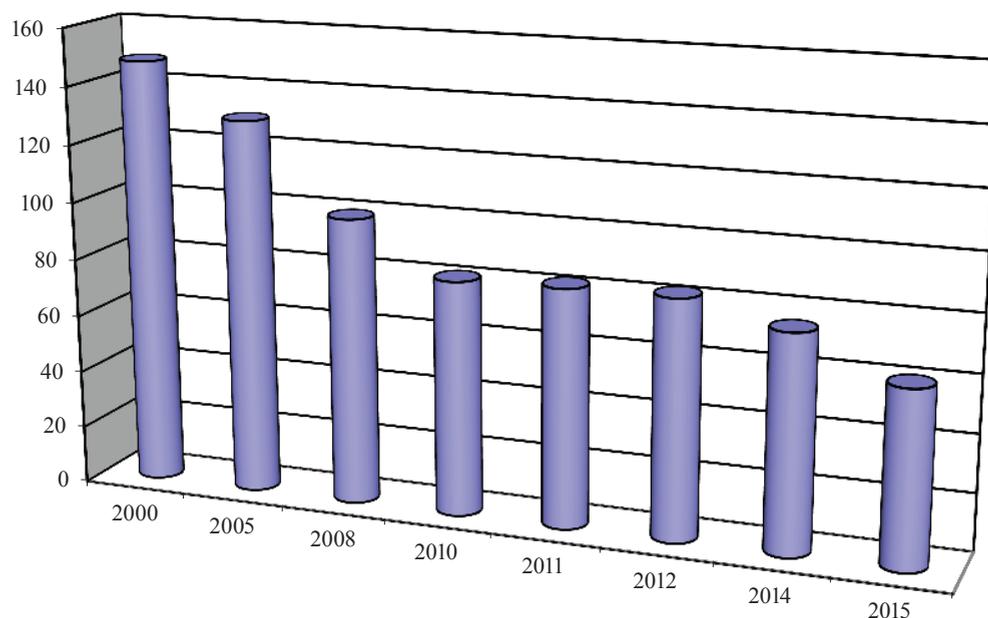


Fig. 1. Dynamics of meat cattle productivity in Ukraine (up to 01.01.2015)

cattle in the different climatic zones of Ukraine is not the same. In the areas of Polissya it is up to 50% of all livestock, while in the forest and steppe areas it amounts to 30 and 20%, respectively. It is obvious that the relevant climatic conditions are the main determinant of the development of meat cattle because grazing land are an integral part of the technology.

The largest number of cattle meat breeds is concentrated in the north and west of the country. Chernihiv and Volyn regions are the leaders in the number of cattle where the concentration is 15.6 and 9.7 thousand heads. In other areas the number of livestock is much lower: in Rivne it is 3.1, in Zhytomyr are 4.8, in Khmelnytskyi are 3.9, and in Sumy is 4.2 thousand heads of meat cattle. Among the central regions of Ukraine meat cattle is mostly developed in Kyiv (4.1 thousand) and Vinnytsia (1.7 thousand) regions. In the eastern and southern regions, the number of cattle is less than one thousand except of Odesa region (2.6 thousand heads).

Among the breeds of the Ukrainian selection the highest proportion is of Volyn meat breed. There are 8 538 cows of this breed including 8 067 heads in agricultural enterprises. The breed is represented by 5 lines: Yamb, Sonnii Cactus, Buinui, Zebrik, Krasavchik. There are several breeding farms of Volyn meat breed: Amila, Buffalo, Vasyuta, Lan-Volyn, Kolos, Vega, Druzhba, Zapovit, Turia, Pravda and others.

Polissia meat breed is the second largest among the breeds of the Ukrainian selection. The total number of cows is 6 432 heads, 5 586 heads are in agricultural enterprises. It is being

bred in Shpanivskoe, Ratnivskiyi agrariy, Bilak, Zirka, Yurchiki, Rachanske, Teterske, Agricore holding. Polissia meat breed continues the line of Iris. Znamensk interbreed type of Polissya meat breed is represented by 3 lines: Radist, Chorea, Malysk.

The third-largest is the Ukrainian meat breed. The total number of cows is 3 233 heads, 1 882 heads are in agricultural enterprises. It is bred in Golovenkivske, Polivanovka. It is represented by 14 lines: Anchar, Ideal, Losos, Pagon, Som, Class, Eufemio, Reactor, Tobiusa, Eoiziano.

Southern meat breed is the fourth in representation among Ukrainian breeding achievements of meat production. The total number of cattle of this breed is 3 046 heads, 2 963 heads are in the agricultural enterprises. It is represented by 5 lines: Loshker, Idol, Kinton, Chec. Southern meat breeds are bred in Askaniyskoe, Zelenogorsk, Agrikor Holding and others.

Grey Ukrainian breed is bred in Markeevo, Polivanovka. The total number of cows is 11 949 heads. Simental meat breed is bred in Agrofort, Agrikor Holding, Chernovetsky. It is represented by 22 lines: Metzl, Gaksl, George, Gonig, Pilatus, Larbol, Abrikot, Ghassan, Hakselan, Neolet, Oceano, Bisser, Dovefields Galant, Kamus Brandi. The number of cows of this breed of meat selection in Ukraine is 9 107 heads.

Aberdeen Angus is the most popular imported breed of meat cattle in Ukraine (Figure 2). The proportion of cows of this breed is 30.6%. The breed is represented in Ukraine by 18 lines: Game Auvers, Chifley, Ilinmer Led, Rayto Iver, Shoushoun, Gambler, Walter Black, Led, Winton, Hamleto, Guiza of-Della.

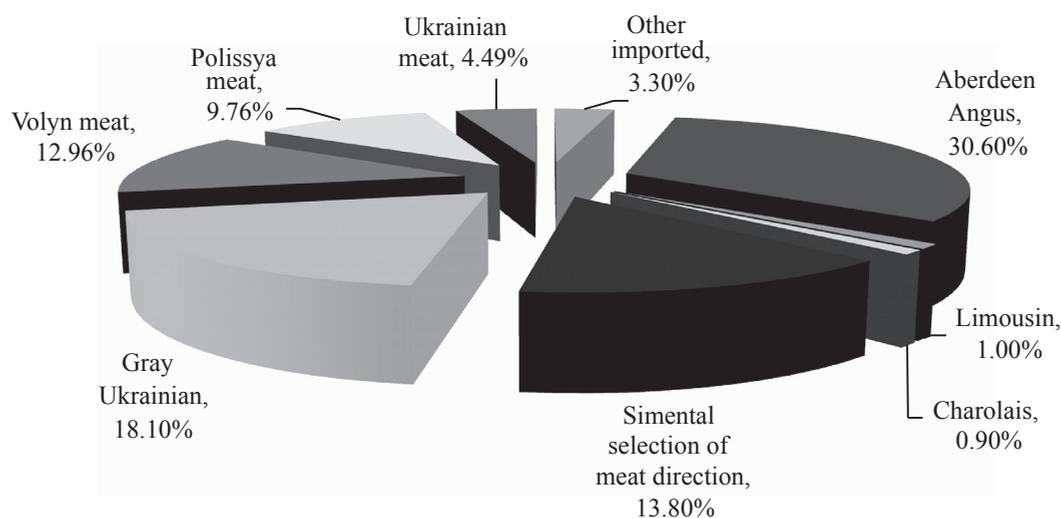


Fig. 2. Cows' of domestic and foreign meat breeds, proportion

The largest farms on Aberdeen Angus breeding are Agro-Novoselovka, Buffalo, Dnepr, Agropromtehnika.

Banteng, Gascon, Hereford, Kian, Maine-Anjou, Pemonteze, Santa Gertrudis are being bred in separate farms. The total number of cows of these imported breeds in Ukraine is 2 177 heads. (3.3%).

Blonde (Light) Aquitaine is presented by four lines: Ulo-lotte, Ayr, Dezhelya, Ichora. Bright Aquitaine breed is bred in Polivanovka.

Hereford is represented by 4 lines: Domino, Discovery, Renegades, Has Homestreych.

Breed Pemonteze is represented by 5 lines: Lugano, Sere-no, Magno, Bertu, Orfeo. Cattle of this breed are bred in stud farm Agrofort.

The breed Chianina (Kian) presented by 3 lines: Trento, Masseno, Kiadino.

Conclusions

The largest number of meat cattle breeds is concentrated in the north and west of the country where climatic conditions are favorable for the creation of the industrial development of meat cattle. Volyn and Chernihiv regions are the leaders in numbers. Works on the establishment of electronic equipment and technique for livestock of meat direction should be promoted. 64 subjects of livestock breeding are registered in Ukraine where 18 meat breeds are being bred. Aberdeen Angus breed is the most popular among imported breeds. Volyn and Polissya meat breeds have the largest proportion among domestic breeds.

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