

MORPHOMETRIC PARAMETERS OF MEDIUM AND LARGE MARKETABLE CARP OF A HYBRID BREED

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Commercial fish farming in the Republic of Belarus at the present stage occupies one of the leading positions in the provision of food to the population. This is due, first of all, to the fact that the fishing industry is a rather promising direction for the development of agriculture. Further development of fish farming will be closely associated with an active increase in the production of marketable fish and a decrease in the cost of raising it.

The object of carp pond fish farming is the main Republic of Belarus. It is universally bred in artificial ponds in natural reservoirs, it has a good growth rate, high taste [1, 2]. A large list of morphometric data characterizing the shape and size of the fish's body is used to characterize nutrients and trade, create industry and fish species of various fish processing equipment, conduct energy calculations, mass transfer processes [3].

The aim of the research was to study morphometric parameters of medium and large commercial carp of a hybrid breed of Lakhvinsky scaly and Amur carp. Work is based on the study of Public corporation "Fish farm "Novinki".

Materials and morphometric parameters were carried out at the Department of Pathological Anatomy and Histology of the Ural State Autonomous High-Aviation Medicine Department. Medium and large commercial carp hybrid was used as the starting material for breed Lakhvinsky scaly and Amur common carp in the amount of 3 individuals of two years old, which were purchased at Public corporation "Fish farm "Novinki". Before starting morphometric studies, all the studied fish were weighed. To assess the exterior indicators characterizing the physique of the fish, the following indicators were determined: absolute length body length—L, ichthyological length—l, head length —C and maximum body height —H. Measurement was conducted using a standard student ruler.

All received digital data were processed statistically. The mass of individuals studied varied from 422 to 475 g. (453,00±19,54 g.), which corresponds to the parameters declared by the fish producer that are typical for the average commercial carp. When studying morphometric parameters, it turned out that for the average of commercial carp, the absolute body length (L) is on average 32,60±1,14 cm, ichthyological length (I) is 27,74±1,49 cm, head length (C) –8,00±0,70 cm, and the highest body height (H) –6,90±0,54 cm. The mass of the studied individuals of large commercial carp ranged from 875 to 1205 g.(1061,66±169,21 g).

Morphometric studies showed that for a large commercial carp, the absolute body length (L) on average is 42,33±1,15 cm, the ichthyological length (I) is 36,00±1,00 cm, and the head length (C) is 12,33±0,57cm, and the highest body height (H) –8,23±0,75 cm.

The obtained morphometric indicators give a clear idea of the obtained morphometric characteristics of the medium and large hybrid breed, crossing commercial salmon of Lakhvino squamous carp and Amur carp, grown at Public corporation "Fish farm "Novinki" selection and genetic.

References. 1. *Andriyasheva, MA development in fish farming / M A.Andriyasheva, E. V. Chernyaeva /The current state of fisheries in the inland waters of Russia. GosNIORH report. –SPb., 2002. P. 257–268.* 2. *Bashunova, N. N. The possibility of growing hybrids of carp in conditions of Belarus / N. N. Bashunova, M. V. Book // Bulletin of the Academy of Sciences of the Republic of Belarus. – Minsk, 1994. –№ 2. –P. 93-96.* 3. *Fish-biological standards for the operation of pond and cage farms in Belarus / V.V. Konchits [et al.]; ed. V.V. Konchits; RUE "Institute of Fisheries", RUE "Scientific and PracticalCenter of the National Academy of Sciences of Belarus for Livestock". –Minsk: [6. and.], 2011. –85 p.*