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TRANSFORMATION OF THE CLIMATIC FACTOR INFLUENCE ON THE PARAMETERS OF THE FISH ORGANISM IN ONTOGENESIS

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Introductions. The trend of increasing the average annual temperature of the surface layer of the atmosphere today is given attention with an emphasis on global warming and the consequences of its impact. Warming, which exceeds the global average, is observed in many regions at different times of the year, including, according to estimates, it was found that in the winter-spring period, air temperature in Ukraine increased by 1.1 – 1.7°, and for the southern region – by 1.2° reduction of winter periods, winters became less cold and less snowy [5, 13, 14, 16]. The analysis shows a negative impact of the reduction of winter temperatures on the functional state of fish that overwinter in the ponds of southern Ukraine [3, 4, 8, 9, 12, 15]. Under these conditions, the fish is in the optimal wintering temperatures of adaptive compensatory mechanisms for only one month.

In the range of winter temperatures above the optimum, the planting material of carp fish species actively consumes nutrients at the same time as weight loss and general depletion, which has a negative impact on the body. Modern climatic conditions in the south of Ukraine, which were formed under the influence of global warming, have a significant impact on the existence of aquatic organisms, especially in the period of early embryogenesis. Traditional technology of growing fish planting material in the ponds of the south of Ukraine requires appropriate changes adapted to climate change [1, 2, 10].

Therefore, there is relevance, practical value of research topics. The analysis was conducted with the study of the following parameters: the temperature of winter ponds, before and after wintering fish. Abiotic and biotic factors influence the body

of fish. In addition, the technological aspects of the core require qualitative and quantitative parameters [6, 7, 11].

Materials and methods. The practical base was used by the Kherson Production and Experimental Plant for Fish Breeding. Object of study *Cyprinus carpio* and Hybrid of silver carp and *Ctenopharyngodon idella*. The main fishery indicators of fish, indicators of physiology, monitoring of air and water temperature in dynamics were analyzed. Used the weather station Ambient Weather AW007.

Results and discussion. The dynamics of changes in air and water temperatures against the background of other meteorological parameters provides an opportunity to more comprehensively assess the impact of global warming on wintering carp fish in the ponds of southern Ukraine. The water temperature of ponds during the winter of carp fish was in the range of 4.48 - 5.69 °C. Throughout the period, the minimum values of water temperature were recorded in January, and the maximum in October. Against the background of air temperature in October and the minimum in February (Fig. 1).

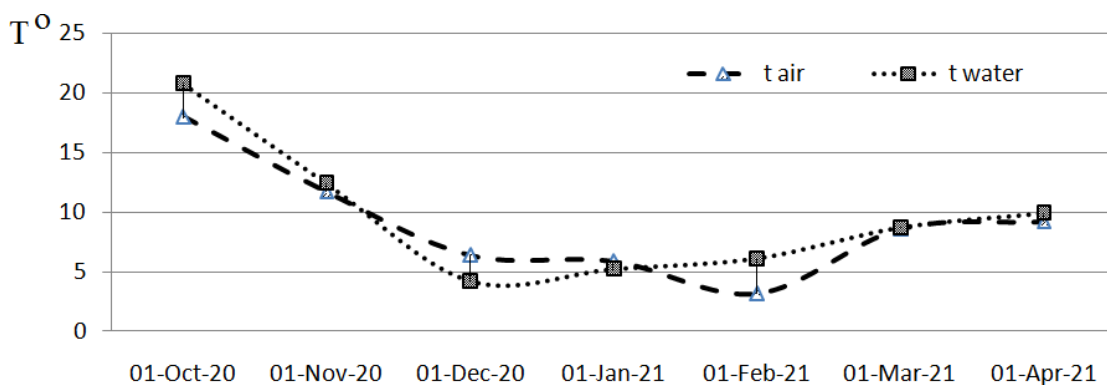


Fig. 1. Monitoring of air and water temperature during carp fish farming in ponds in climatic conditions of the southern region of Ukraine

Water temperature is more stable and resistant to air temperature. The period when the fish was in the optimal winter temperatures of adaptive-compensatory mechanisms was only one month. When the range of wintering temperatures above the optimal values increases the need for fish nutrition. At the same time during the whole period against the background of the practical lack of food, begins the activation, mobility of fish, active consumption of nutrients, weight loss. Therefore,

the study of the main parameters that inform the development of fish is important. The analysis showed that the percentage of fish survival had differences between the beginning of wintering of fish and the end of the period. (Fig. 2).

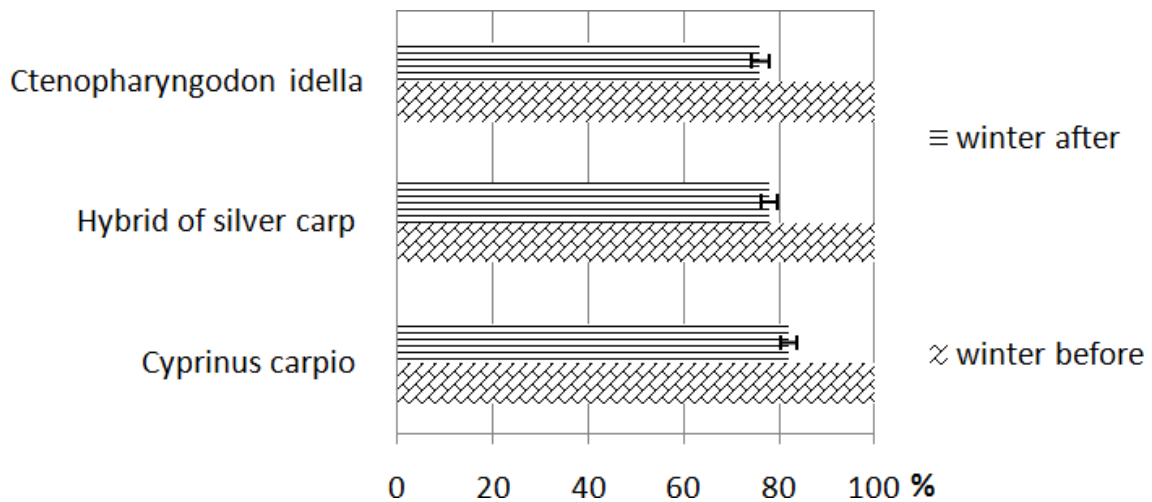


Fig. 2. Analysis of the survival of fish depending on the influence of the seasonality factor, %

Research in fish farming of the parameter body condition index is an informative and important indicator (Fig. 3).

The study of blood analysis in fish helps to draw complex conclusions. Differences were also established as a result of the study of blood. It has been established that the adaptability of the organism to the fish has a small difference in plasticity and a tendency to an increase, or a change in the same parameters in the blood.

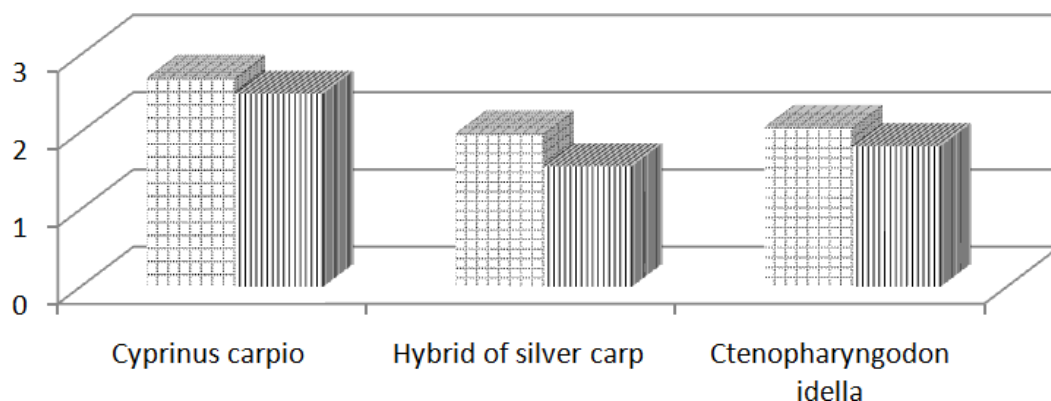


Fig. 3. Analysis of the parameter body condition index

Increasing the number of erythrocytes in ribs before wintering. The intensity of

hematopoiesis was the most important parameter in the blood of single fish in all species of ribs in the average by 22.3% of the cultivars. With this, the erythrocytic blood warehouse of the fish was coralized with an average body mass. Studies of the body of fish before and after wintering supplemented the results of the study of hemoglobin. After wintering in the blood of fish increased by an average of 5.19%, which indicates the activation of the mechanism of acid-base balance.

In fish during the winter, the content of total protein before winter at the level of 15.25 - 24.36 g / l, seasonality and all related factors contributed to a greater extent to reduce this figure after winter, by an average of 5.55%. Analyzing the trend of protein metabolism parameters, it is possible to supplement the results on the processes of synthesis, rate of development, accumulation of body weight of fish during the winter and exit from this biologically complex process.

Conclusion. The nature of changes in air temperature during winter has been studied, the dynamics of temperature and oxygen regime of winter ponds and its influence on fish farming indicators have been determined. The impact on the main fisheries indicators is determined.

Wintering fish stocks according to standard fisheries recommendations against the background of modern climate change, leads to excessive quantitative losses of fish after wintering by an average of 15%, accompanied by loss of average individual weight and energy reserves of fish, deteriorating fishery quality farm costs. Against the background of increasing vegetation period, the winter period has decreased, and the winters themselves have become less cold, which in turn affects the efficiency of wintering fish stocking material and requires certain technological changes.

REFERENCES

1. Коржов Є. І., Гончарова О. В. Формування режиму солоності вод Дніпровсько-Бузької гирлової області під впливом кліматичних змін у сучасний період. Actual problems of natural sciences: modern scientific discussions: Collective monograph. Riga: Izdevniecība «Baltija Publishing». – 2020. Pp. 315-330.

2. Кутіщев П. С., Коржов Є. І., Гончарова О. В., Козлов Л. В. Екологічна оцінка якості води Дніпровсько-Бузької естуарної екосистеми за гідрохімічними показниками. Таврійський науковий вісник. ХДАЕУ. Херсон: Видавничий дім «Гельветика», 2021. – Вип. 120. С. 323 – 335

3. Коржов Є. І., Самойленко Л. М., Жур А. М. Вплив прозорості води на кількісні показники зоопланктону водойм пониззя Дніпра // Проблеми гідрології, гідрохімії, гідроекології : Мат. 6-ої Всеукр. наук. конф. з міжнар. участю (Дніпропетровськ, 20-22 травня 2014 р.). – Дніпропетровськ: ТОВ «Акцент ПП», 2014. С. 148–150.

4. Тімченко В. М., Коржов Є. І. Сучасні попуски Каховської ГЕС як фактор погіршення стану екосистеми Нижнього Дніпра // Гідрологія, гідрохімія, гідроекологія: Мат. 5-ої всеукр. наук. конф. (Чернівці, 22-24 вересня 2011 р.). – Чернівці: Чернівецький нац. ун-т, 2011. – С. 257-259.

5. Тимченко В. М., Коржов Е. И., Гуляева О. А., Батог С. В. Динамика екологически значимых элементов гидрологического режима низовья Днепра / Гидробиол. журн. – 51, №4. – 2015. – С. 81-90.

6. Honcharova, O. V., Paraniak R. P., Hutyi, B. V. Funktsionalnyi stan orhanizmu prisnovodnykh ryb za umov vplyvu abiotychnykh chynnykiv. Naukovyi visnyk Lvivskoho natsionalnoho universytetu veterynarnoi medytsyny ta biotekhnolohii im. S. Z. Gzhytskoho, 2019. – 21 (90), 82 –87.

7. Honcharova O. V., Paranjak, R. P., Rudenko, O. P., Lytvyn N. A. Biological substantiation of improvement of biotechnological map of production of aquaculture products "eco-direction". Ukrainian Journal of Ecology, 2020. – 10 (1), 261–266.

8. Honcharova O. V., Korzhov Ye. I., Kutishchev P. S. Evaluation of the effectiveness of introduction of elements of innovative technologies at stocking of the transformed reservoirs by viable juvenile fish on physiological and ecological indicators / Development trends of the world agriculture in the XXIst century: the view of the modern scientific community: Scientific monograph. – Riga, Latvia: «Baltija Publishing», 2022. – Pp. 110-131.

9. Honcharova O., Kutishchev P., Korzhov, Ye. A Method to Increase the

Viability of *Cyprinus Carpio* (Linnaeus, 1758) Stocking of the Aquatories Under the Influence Advanced Biotechnologies / Aquaculture Studies. – Turkey, Trabzon: Central Fisheries Research Institute (SUMAE), 2021. – 21, P. 139-148.

10. Korzhov Ye. I. Zooplankton quantitative indicators of typical floodplains waters of the mouth section of the Dnieper in the spring period // Modern scientific research: achievements, innovations and development prospects. Proceedings of the 8th International scientific and practical conference. MDPC Publishing. Berlin, Germany, 2022. – P. 79-84.

11. Kutishchev P., Honcharova O., Korzhov Ye. Technological aspects of the introduction of nanotechnology in aquaculture for stocking of reservoirs // The Proceedings of the 2nd International Scientific and Practical Conference «Science, Education, Innovation: Topical Issues and Modern Aspects» (May 11-12, 2021). Tallinn, Estonia: Ühingu Teadus juhatus, 2021. – P. 208-212.

12. Korzhov Ye. I., Kutishchev P. S., Honcharova O. V. On the issue of the species composition dynamics of Percidae family fishes in the mouth region of the Dnieper in different research periods // International scientific innovations in human life. Proceedings of the 10th International scientific and practical conference (April 13-15, 2022). Cognum Publishing House. Manchester, United Kingdom, 2022.- Pp. 73-77.

13. Kutishchev P. S., Korzhov Ye. I., Honcharova O. V. Retrospective analysis and forecast of the main abiotic factors of the environmental conditions of ichthyofauna of the Dnipro-Buh estuary ecosystem / Topical issues of the development of veterinary medicine and breeding technologies: Scientific monograph. Riga, Latvia: «Baltija Publishing», 2022. – Pp. 476-497.

14. Korzhov Ye. I., Kucheriava A. M. Peculiarities of External Water Exchange Impact on Hydrochemical Regime of the Floodland Water Bodies of the Lower Dnieper Section / Hydrobiological Journal – Begell House (United States). Vol. 54, Issue 6, 2018. – Pp. 104-113.

15. Shevchenko I. V., Korzhov Ye. I., Kutishchev P. S., Honcharova O. V., Shevchenko V. Yu. Effect of Abiotic Factors upon Morphological Variability of

Fleuria lacustris Larvae (Diptera, Chironomidae) / Hydrobiological Journal – Begell House (United States). Vol. 56, Issue 5, 2020. – P. 15-22.

16. Timchenko V. M., Korzhov Ye. I. , Guliayeva O. A., Batog S. V. Dynamics of Environmentally Significant Elements of Hydrological Regime of the Lower Dnieper Section / Hydrobiological Journal – Begell House (United States). Vol. 51, Issue 6, 2015. – P. 75-83.