

## Optimization of the management in carp ponds with 1-year production cycle in terms of co-feeding methods and mass balance

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| <b>Project name</b>        | Optimization of the management in carp ponds with 1-year production cycle in terms of co-feeding methods and mass balance |
| <b>Registration number</b> | QK21010131  |
| <b>Realization date</b>    | 1. 1. 2021 – 31. 12. 2025   |
| <b>Recipient</b>           | University of South Bohemia in České Budějovice<br>Faculty of Fisheries and Protection of Waters                          |
| <b>Other recipients</b>    | Biology Centre CAS<br>Blatenská ryba, spol. s r.o.  |
| <b>Provider</b>            | Applied „ZEMĚ“ research programme of the Ministry of Agriculture for the period of 2017–2025                              |
| <b>Responsible solver</b>  | Dipl.-Ing. Lukáš Veselý, Ph.D.  |

### PROJECT ANNOTATION

This project is focused on the maximum use of natural production of common carp (*Cyprinus carpio*, L. 1758) and the optimization of its feeding in carp ponds. The main goal is to reduce the feed rations of cereals compared to the current practice while maintaining the same yield of fish per unit area.

### PROJECT GOALS

This project aims to maximize natural production by optimizing the effectivity of cereal co-feeding of carp (*Cyprinus carpio*, L. 1758) in ponds. The main goal is to reduce the amount of cereal feed necessary for feeding a carp in ponds and maintain the net carp production per hectare of a pond on the same level as with a traditional concept. We expect that application of the optimized approach in carp feeding in ponds will lead to reduction both in feed costs by ca. 10% and in labour-intensive services. Moreover, the optimized cereal co-feeding reduces phosphorus and nitrogen loading of the pond ecosystem that will significantly lower eutrophication risk of current semi-intensive pond aquaculture. It will, in turn, lead to less restrictions from water authorities and nature conservation.



### PROJECT BUDGET

|                                       | Amount CZK       |
|---------------------------------------|------------------|
| <b>Total approved costs</b>           | 20 419 thou. CZK |
| <b>Public financial support</b>       | 17 355 thou. CZK |
| <b>Other public sources</b>           | 0 thou. CZK      |
| <b>Non public and foreign sources</b> | 3 064 thou. CZK  |

### CONTACT



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