

Nutrition and Feeding of Indian Major Carp - A Bibliography

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A contribution from ICAR Outreach Activity-1: Fish Feeds

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Foreword

Optimization of fish productivity potential of open water fishery resources is the need of the hour to meet the growing demand of fish which could be achieved by enhancement of fish stocks in these resources. In this direction enclosure culture technology like pen and cage culture proved to be suitable package of practices to sustain productivity of ecosystem and livelihood of end users. As the demand for feed based cage culture for both seed raising and table fish production is growing at a fast pace, whole gamut of knowledge available on nutrition and feeding for aquaculture species need to be documented and popularized. These knowledge and information could be adapted for the species to be cultured in cages and shared by various stakeholders (researchers, feed manufacturers and farmers).

In aqua farming, feed is the dominant and important input where feed components constitute more than 50% of the operational cost. To optimize the operational cost, formulation of cost effective feed with better conversion ratio is of utmost importance. In the formulated feed, among nutrients, protein is the costliest component. Optimization of protein level in the formulated feed is, therefore, a foremost task. Further knowledge on amino acid requirement and their optimum inclusion in the feed formulation will help fish in efficient protein utilization for growth.

Scientific culture of Indian major carp both in land based aqua-farm and open water enclosure farming in the sub-continent is of recent origin, compared to salmon, American catfish, eel, perch and yellow tail in other parts of the world. Research support for development of carp feed intensified concomitantly pertaining to nutrient requirement and information on feed stuff. The information on nutritional requirement and feed stuff thus generated are extremely useful for scientific fish farming for better economic return and environment sustainability. The knowledge base on the subject is rendering support to the feed industry in one hand and farmers and entrepreneurs on the other hand in manufacturing and formulating fish feed. In order to make the knowledge and information on Indian major carp more useful and easily accessible, the present effort was therefore directed towards gathering the information available in the public domain and compiled them in the form of a bibliography. This would help in efficient use of data, knowledge and information by the user groups and furthering the cause of nutritional research in the country.

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CHAPTER -1



Protein Requirement

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CHAPTER - 8



Feed Additives

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CHAPTER - 9



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CHAPTER - 10



Feeding Practice

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