RESEARCH ARTICLE

Fish diversity in relation to fish economics of Isapur dam, from Pusad, Yavatmal District (Maharashtra), India.

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ABSTRACT

The Study fish diversity and analysis of fish Economics of Isapur dam from Pusad Dist. Yeotmal in Maharashtra region. The water body resource for human consumption, significant role in the human economy and agriculture. special reference to fish diversity and fish rare. The importance of fish economics in fish Production and Analysis in fish of data were also Studied.

Keywords: Isapur dam, Fish Economics, Diversity, Pusad.

INTRODUCTION

In India, a number of ponds, lakes and reservoirs are naturally found but they are not being utilized properly due to take of insufficient study of the hydro biology. Indian reservoirs presence a rich variety of fish species, which support to the commercial fisheries and fish production. This diversity is on decline and few species have been lost from the fresh water ecosystem of India and some are under endemic, endangered and threatened category. The study of different water parameters is very important. The Fish are not only used as good source of food for mankind, having economic important from medicinal plant of view but also play a crucial role in the second tropic level of the aquatic ecosystem. The Indian National Biological Diversity Act.2002 defines biological diversity as the variability among living organisms from all source and the ecological complexes of which they are part and includes diversity with species or between species and an ecosystem. Fish diversity is a good index of healthy, growing dynamic and economically efficient water body. the fish form a rich source of food and nutrition. Serving as an important item of food. It is a natural as a source of proteins, fat and vitamin A and D providing certain other useful by products. Fish found diversity is a major aspect for its development and management for developing fishery. The Maharashtra state for the fish production and natural water resources. There is wide scope for the further development in the fisheries sector. Fishes of fresh or in land water bodies of the Indian sub-continents have been subject of study since last century. The fish diversity was studied by many workers to a great extent that includes Ahmad et al. (2008), Sarwade et al. (2010), Muruga (2012), Chouhan et al. (2013), Sirajudheen and khan (2014), and Londhe (2015).

The Isapur dam as a rich source of water supply for a agriculture, fish culture, and drinking purposes. In the present investigation fish diversity in relation to fish economics of Isapur dam were studied during the year June 2015 To May 2016. The Isapur dam is across the river Penganga near Isapur Village. The length of dam is 3730 meters with gated spillway on right side. The maximum height of the dam in river bed is 48 meters. It is situated within the latitude 19^o 16'30"N to 20^o – 30'N. The main scope of this dam is irrigation and fishing purposes.

MATERIAL AND METHODS

The fishes were collected from different sites of Isapur dam with the help of local fisherman and preserved in 4% formalin for identification. this work was conducted during the month of June 2015to may 2016. Fishes were identified. Following work of Days (1878), Talwar and Jhingran (2001).

RESULT AND DISCUSSION

During the study period study 17 fish species belonging to 07 orders and 11 families were recorded from the site of Isapur dam. The member of order Cyprimiformes and Silariformes were dominated by each 04 species of fishes. Labeo rohita catla, catla, wallago, attu, mystus seenghala cirrhinusmrigala, channa punctatus, notopterus motopterus. Cyprimus carpio. Barbus ticto, barilis bendelis, neamacheilus botia, ophiocephalis gachua, opiocephalus marulis mastocembelus armatus. The collected and identified fish species including their scientific name, order, family and status, are shown in the given table. Such type of investigation was carried out by other workers also maintained in the same table. Ahmad et al. (2008), Devi Parsad et al. (2009), Mohite and Samant (2013).

Table 1: FISH diversity of Isabur dalli during the year fulle 2015 to May 20	Table 1: Fish diversit	v of Isapur dam	during the year	Iune 2015 to Ma	v 2016
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Sr. No.	Scientific name	Order	Family	Status
1	Barbus ticto	Cypriniformes	Cyprinidae	А
2	Barilius bendelis	Cypriniformes	Cyprinidae	А
3	Catla catla	Cypriniformes	Cyprinidae	А
4	Cirrhinus mrigala	Cypriniformes	Cyprinidae	А
5	Cyprinus carpio	Cypriniformes	Cyprinidae	А
6	Nemacheilus botia	Cypriniformes	Cyprinidae	R
7	Wallago attu	Siluriformes	Bagridae	А
8	Mystus seenghala	Siluriformes	Bagridae	А
9	Clarias batrachus	Siluriformes	Claridae	R
10	Heteropneustes fossilis	Siluriformes	Hetropneustidae	R
11	Anabas testudineus	Stromateoidei	Anabantidae	М
12	Channa puncatus	Perciformes	Channidae	А
13	Notopterus notopterus	Clupciformes	Notopteridae	А
14	Notopterus Kapirat	Clupciformes	Notopteridae	А
15	Ophiocephalus gachua	Ophiocephaliformes	Cyprinidae	А
16	Ophiocephalus marulius	Ophiocephaliformes	Cyprinidae	А
17	Mastocembelus aramatus	Mastocembeliformes	Mastocembelidae	А

A - Abundance, M - Moderate, R - Rare.



Fig: 1 : A: Cirrhinus mrigala, B: Wallago attu, C: Barilius bendelisis, D:Rohu, E: Ophiocephalus gachua, F:Catla-catla, G: Ophiocephalus marulius, H: Nemacheilus botia, I: Mastacembeleus armatus

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