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Fish Biodiversity of the Katepurna River in Vidharbha, (M.S.) India

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Abstract:

The present study deals with fish biodiversity undertaken during period January-2015 to Decemeber-2017 to census and commercially important fishes in the Katepurna River. The present paper deals with the variety and abundance of fresh water fishes in the Katepurna River at Vidarbha (M.S) India. The results of present investigation reveal the occurrence of 124 fish species belonging to 10 orders, 20 families and 35 genera. Among the collected species, order Anabantiformes have 7%, Anguilliformes 3%, Beloniformes 2%, Cichliformes 2%, Cypriniformes 50%, Cyprinodontiformes 2%, Gobiiformes 2%, Osteoglossiformes 2%, Ovalentaria 2%, Siluriformes 21%, and Synbranchiformes 7%

respectively.

Key Words: Fish biodiversity, Economic value, Nutritive Value, the Katepurna river

Introduction

Fishes are one of the important elements in the economy of many nations as they have been a stable item in the diet of many people. They constitute slightly more than one-half of total number of approximately 54,711 recognized living vertebrate species; there are descriptions of an estimated 27,977 valid species of fishes (Nelson 2006).

Biodiversity is essential for stabilization of ecosystem, protection of overall environmental quality for understanding intrinsic worth of all species on the earth (John Wiley and Sons 2011). Fish biodiversity of river essentially represents the fish faunal diversity and their abundance. River conserves a rich variety of fish species which support to the commercial fisheries. In India potential of fish culture is yet to be fully exploited. Fishes being rich source of proteins and have high nutritive value. Extensive development of aquaculture needs to be given priority after green revolution to feed ever growing population. Success of fish culture depends apart from other factors, on selection of suitable species. Secondly the country is rich in diversity of such important group of animals. Further, there is a need of a survey of diversity of fishes in different types of habitats of Rivers all over the country. The total length of rivers in India is about 29,000 km. All these rivers, their tributaries, canals and irrigation channels have an area of roughly 13,000 km. Riverine fisheries of India comprises of five major river systems.

- o Ganga river system.
- o Brahmaputra river system.
- o Indus river system.
- o East coast river system.
- o West coast river system (Ehrlich, and Wilson, 1991)

The Katepurnariver, which flows through Akola and Washim district of Maharashtra. It rises from Ajintharenges near Kata village of Washim Tehsil. It is tributary of Purnariver, which flows through central parts of Akla district. Its

Gobiiformes [2 individuals][1 species],
Osteoglossiformes [2 individuals][1 species],
Ovalentaria [3 individuals] [1 species],
Siluriformes [17 individuals] [9 species],
Synt

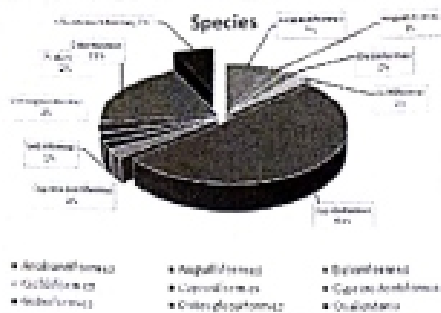


Figure 1: Order wise fish composition of Katepurna river dis. Akola

As mention above order Anabantiformes have *Channamarulius*, *Channapunctate*, *Channagaucha* are in abundant form and *Colisalaria* species is in rare form, in Order Anguilliformes have *Muraenesoxbagio* is also rare species, in order Belontiiformes have *Xenentodoncancila* which is less abundant. order Cichliformes have *Oreochromismossambicus* species it also rare, order Cypriniformes have large no of verity of fishes *Amblypharyngodonmola*, *Catlacatla*, *Cirrhinusmrigala*, *Cirrhinusreba*, *Cyprinuscaurio*, *Devariomalabaricus*, *Garramullya*, *Labeobata*, *Labeoboggut*, *Labeocalbasu*, *Labeorohita*, *Puntiuschola*, *Puntiusmahecola*, *Puntiusophore*, *Rasboradaniconius*, *Rohteeogilbii*, *Salmophasiabacaila*, *Systemussarana*, *Acanthocobitisbotia*. Order Cyprinodontiformes have *Poeciliareticulate* species. Order Gobiiformes have *Glossogobiusgiuris* species which is abundant. Order Osteoglossiformes have *Notopterusnotopterus* which is less abundant species. Order Ovalentaria have rare *Chandanama* species. Order Siluriformes have *Amblycepsmangois*, *Nemapteryxcaelata*, *Mystusbleekeri*, *Mystuscavasius*, *Sperataseenghala*, *Clariasgaripepinus*, *Heteropneustesfossilis*, *Ompokbimaculatus*, *Wallagoattuspecies*. Order Synbranchiformes have *Macrognathuspancalus*, *Mastacembelusarmatus* species.

Discussion Recorded abundance of catfishes in Katepurna reservoir (Talwar, and Jhingran, 1991). Total 41 species were present in which 20 were commercially important. Reported 34 species of fishes in reservoirs of Parbhani Dist. Of Maharashtra (Sakhare, and Joshi 2003). Reported the Ichthyofauna of Harsool-Saving Dam Aurangabad (M.S.) India (Shinde, et al. 2009). Total 15 fish species belonging to 3 orders, 4 family and 12 genera. The order cypriniformes found dominant with 11 species, followed by perciformes 3 species and siluriformes with 1 species.

Conclusion The work has been conclude with further strategies for development of fish fauna conservation of Katepurna River at Vidarbha Dist. Akola (M.S.) India. Resent data regarding Fish diversity of the East cost river system, aiming to contribute a better knowledge of the fish diversity of Katepurna River and a tool for conserving planning of aquatic environments in this region. To maintain Fish biodiversity has an immense important as it is not always possible to identify individual species critically to sustain aquatic ecosystem.

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