



ICHTHYOFAUNA OF DASTAPUR DAM IN MANGRULPIR, DIST. WASHIM

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Abstract:

The study of the biotic components of producers and primary consumers and secondary consumers which is rich in biotic communities of dam Dastapur dam near She which is 12 KM away from Mangrulpir, Taluka Mangrulpir Dist. Washim in Maharashtra. The study encouraged to develop fish breeding farm in these dam under investigation. Relative occurrence and economic values of fishes are discussed.

Keywords:-Dastapurdam, Ichthyofauna,, Zooplankton.

Introduction:-

Fishes are primary or secondary consumers in nature and fishes form a rich food for man and migratory birds and also provide several by-products. Fish diet for man is good source of protein, fats and vitamins A, D, and E. The Calcium, phosphorus and other elements present in it gives good taste. Fishes of inland water bodies have been studied since last century Day (1994), Talwar and Jhingran, (1991) Rao et. al. (1999), Meshram (2005). Study of zooplankton help to understand pollution level of dam and also give information about food available for fishes. This dam help to increase production of fishes to improve economic conditions of fisherman.

Material and Methods:-

Fishes from dam Dastapur which is 12 KM away from Mangrulpir, Taluka Mangrulpir Dist. Washim were collected with the help of fisherman examined for colour pattern, preserved in 10% formaldehyde and identified following the key of Day (1994), Talwar and Jhingran, (1991). Zooplankton are collected with the help of plankton collecting net from 5

different places of water bodies and brought to laboratory for identification.

Observation and Result Discussion:-

Zooplankton assemblage specially rotifers dominated the water body, 22 species of rotifers from 13 genera have been identified Vashist and Sharma (1976). Meshram et al (2005), Arora (1966). Among copepods Cyclops concentration in the water body rich to maximum.

Table 1:- Zooplankton Communities present in Dastapur Dam.

Sr. No.	Zooplankton	
1	Rotifers	Branchionus falcatus
		Cephalodala
		Monostyla
		Rotararia
2	Copepod	Cyclops
		Diaptomus
		Ectocyclops
3	Cladocerans	Ceriodaphnia
		Leydigia

Table 2:- Occurrence and economic values of fishes in Dastapur Dam.

Sr. No.	Species Name	Common Name	Relative Abundance	Economic Value
1	Labeorohita	Rohu	Abundant	Commercial Food, Fine food
2	CyprinusCarpeo	Common Carp	Abundant	Commercial Food, Fine food
3	Cirrhinamrigala	Mrigal	Abundant	Commercial Food, Fine food
4	Catlacatla	Catla	Abundant	Commercial Food, Fine food
5	Wallagoattu	Lachi	Moderate	Commercial Food, Fine food
6	L.calbasu	Kalbasu	Moderate	Commercial Food, Fine food
7	Mystusseenghala	Tengra	Rare	Commercial Food, Fine food
8	Clariusbatrachus	Magur	Rare	Commercial Food, Fine food
9	Channapunctatus	PhoolDhok	Moderate	Commercial Food, Fine food
10	C.merutis	Murrel	Abundant	Commercial Food, Fine food
11	C. striatus	Morrul	Rare	Commercial Food, Fine food

Discussion:-

In this dam cladocerans showed no definite pattern (Table 1). The occurrence of 11 species of teleost fishes belonging to order cypriniformes and ophiocephaliformes were recorded during the study period. (Table-2) The primary producers of dam water forming good food chain that influenced the intensive growth of economically valuable fishes. The fish fauna is an important aspect of fishery potential of the water body. Present study confirms fishes from order cypriniformes dominated the dam. Deep zone dominated by major carps and catfishes; it might be due to the population dynamics of zooplanktons including rotifers. The primary producers of dam water forming good food chain that influenced the intensive growth of economically valuable fishes.

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