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Ichthyofouna of Sanjay Sagar Reseirvoir of District Guna (MP)

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ABSTRACT : The main aim of the present study was to investigate the species composition of Sanjay Sagar reservoir of Guna district. A limno-ichthyological study was conducted for one year (March 2018 to February 2019) and various indigenous and commercial fishes of importance were found in this reservoir. The present paperdealswiththevarietyandabundanceoffreshwaterfishesofreservoir.

Keywords : Sanjay Sagar reservoir, ichthyofauna, fishes.

INTRODUCTION

Fishes constitute economically vary important group of animals. The nutritional and medicinal value of fishes has already been recognized (Hora and Pillay 1962, Mishra 1956, Jhingran 1982). A number of large artificially constructed fish water impoundments have come into existence in India, especially during last four decades, adding considerably to the already existing rich water potential for the development of the country's fishery resources fish fauna of various reservoirs has been reported by Sharma *et al* (2004) and Jhingran (1982). The Sanjay Sagar reservoir in Guna district, M.P. has been extensively usedforIrrigation,drinking,bathingandfishculture.

MATERIAL AND METHEDS

Sanjay Sagar reservoir is located in the Guna district, about 50 Km. from Guna Township. The average rain fall of Guna is 910 mm. Sanjay Sagar reservoir is a medium irrigation reservoir constructed in 1982 with the help of World Bank Funding with a catchment area of 6973 heater. It lies between latitude 24-22-30" and longitude 77-14-30" at an altitude of 480.05 meters above mean sea level. The dam is built across the reservoir is mainly use for irrigation, drinkingwaterandfishculturepurposes.

During the present study fishes were collected monthly from the Sanjay Sagar reservoir with the help of local fisherman fresh water fishes were brought to the laboratory and preserved in formlin solution. The identification of fish was done with the help of standard keys and and books (Mishra 1956, Day 1978, Shrivastava 1992).

Table: 1: The ichthyofauna collected from the Sanjay Sagarreservoir.

	Class-Pisces		
	Sub-class-Teleostei		
	Order-Cypriniformes		
	Sub-order-Cyprinodei		
	Family-1-Cyprinidae		
1.	*Catlacatla*	(Ham.)	Major carp.
2.	*Cirrihinamrigala*	(Ham.)	Major carp.
3.	*Cirrihinareba*	(Ham.)	Major carp.
4.	*Cyprinuscarpio*	(Lim.)	Exotic species.
5.	*Labeobata*	(Ham.)	Miscellaneous.
6.	*Labeocalbasu*	(Ham.)	Major carp.
7.	*Labeofimbriatus*	(Bloch)	Major carp.
8.	*Labeogonius*	(Ham.)	Miscellaneous.
9.	*Labeorohita*	(Ham.)	Major carp.
	Order-II Siluriformes		
	Family-IIBagridae		
10.	*Mystus aor*	(Ham.)	Catfishes
11.	*Mystus seenghala*	(Sykes)	Catfishes
	Family-III Silurudae		
12.	*Wallago attu*	(Bl., Schn.)	Catfishes
	Family-IV Clariisae		
13.	*Clarias batrachus*	(Linn.)	Livefishes
	Order-III Mastacembelliformes		
	Family-VMastacembelidse		
14.	*Miscellaneous*	(Lacepede)	
	Order-IV Ophiocephaliformes		
	Family-VIOphiocephlidae		
15.	*Ophiocephalus marulius*	(Day)	Live fishes
16.	*Ophiocephalus striatus*	(Day)	Live fishes

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RESULTS AND DISCUSSION

In Sanjay Sagar reservoir sixteen species of fishes were found belonging to four deferent Order of Sub-class Teleostei of Class-Pisces Viz. Cypriniformes, Siluriformes, Mastacembelliformes and Ophiocephaliformes of order fishes.

The economic importance of the species collected is also given Table 1. Fishes of Order Cypriniformes dominated the fish fauna of the reservoir with Total - Nine species followed by Siluriformes by Four species, Ophiocephaliformes by Two species, Mastacembelliformes represented by single species.

Table 1: Economic importance of fishes recoded from Sanjay Sagar reservoir.

S. No.	*Species*	*Commercial*	*Fine food*	*Coarse food*	*FeedingHabit*
1.	*Catla catla*	■	■		Plankton feeder
2.	*Cirrihina mrigala*	■	■		Omnivorous
3.	*Cirrihina reba*	■	■		Predatory fish
4.	*Cyprinus carpio*	■			Omnivorous
5.	*Labeo bata*	■			Herbivorous
6.	*Labeo calbasu*	■			Omnivorous
7.	*Labeo fimbriatus*	■			Herbivorous
8.	*Labeo gonius*	■			Herbivorous
9.	*Labeo rohita*	■	■		Herbivorous
10.	*Mystus aor*	■	■		Predatory fish
11.	*Mystus seenghala*	■	■		Predatory fish
12.	*Wallago attu*	■			Predatory fish, LV
13.	*Clarias batrachus*	■			LV, Carnivorous
14.	*Miscellaneous*	■	■		Predatory fish
15.	*Ophiocephalus marulius*	■	■		LV, Predatory fish
16.	*Ophiocephalus striatus*	■			LV, Predatory fish

LV - Larvaevorous

REFERENCES

Ahirro, S.D. and Mane, A.S. (2000). The diversity of ichthyofauna, taxonomy and fisheries from some Freshwater of Parbhani district (M.S.) *J. Aqua. Bio.* **15**(122): 40-43.

Datt, Munnshi and Srivastav, P.M. (1988). Natural history of fishes and systematic of fresh water fishes of India, Narendra Publishing House, NewDelhi.

Day, F.S. (1978). The fishes of India. William &Sons Ltd. Dhakad,,

N.K. Shinde, Deepak and Choudhary, Preeti (2008). Fish Fauna of Mod Sagar reservoir of Jhabua District M.P., *Nature. Environ. & Poll. Tech.* **7**(1): 159-161.

Hora, S.L. and Pillay, T.V.R. (1962). InHandBookonFishculturein India pacific Region. *FAO Fish, Bio. Tech. Paper,* **14**: 204.

Jhingran, V.G. (1982). Fish and Fisheries of India. Hindustan Pub. Corporation India.

Lagler, K.F. (1952). Freshwater Fishery biology W.M.C. Brown and Co-lowa.

Mishra, K.F. (1956). An Aid tobetheIdentificationoftheFishesof India, Burma andCeylon.

Munde, A.V. and Hiware, C.J. (2006). Diversity of Fish Fauna from Thodaga reservoir, Ahemedpur Taluka of Marathwada Region, Maharashtra state, *Flora & Fauna.* **12**(1): 54-56.

Sharma Archana, Mudgal, L.K., Sharma Anajana, Sharma Shailendra (2004) Fish diversity of Yashwant Sagar reservoir, Indore (M.P.), *Him. J. Environ. Zool.*, **18**(2): 117-119.

Shrivasytava Gopalji (1992). Fishes of U.P. and Bihar. Vishwavidyalay Prakashan, Chowk, Varanasi (India).