# Fish Fauna 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 2007 to February 2008) and various indigenous and commercial fishes of importance were found in this reservoir. The present paper deals with the variety and abundance of fresh water fishes of reservoir.

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striatus

Class-Pisces

Sub-class-Teleostei

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 used for Irrigation, drinking, bathing and fish culture.

### 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, drinking water and fish culture purposes.

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 Sagar reservoir.

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	Sub-class-feleostel							
	Order-Cypriniformes							
	Sub-order-Cyprinodei							
	Family-1-Cyprinidae	:						
1.	Catla catla	(Ham.)	Major carp.					
2.	Cirrihina mrigala	(Ham.)	Major carp.					
3.	Cirrihina reba	(Ham.)	Major carp.					
4.	Cyprinus carpio	(Lim.)	Exotic species.					
5.	Labeo bata	(Ham.)	Miscellaneous.					
6.	Labeo calbasu	(Ham.)	Major carp.					
7.	Labeo fimbriatus	(Bloch)	Major carp.					
8.	Labeo gonius	(Ham.)	Miscellaneous.					
9.	Labeo rohita	(Ham.)	Major carp.					
	Order-II Siluriforn	mes						
	Family-II Bagridae	•						
0.	Mystus aor	(Ham.)	Cat fishes					
1.	Mystus seenghala	(Sykes)	Cat fishes					
	Family-III Silurudae							
2.	Wallago attu	(Bl., Schn.)	Cat fishes					
	Family-IV Clariisa	ie						
3.	Clarias batrachus	(Linn.)	Live fishes					
	Order-III Mastacembelliformes							
	Family-V Mastacembelidse							
4.	Miscellaneous	(Lacepede)						
	Order-IV Ophiocephaliformes							
	Family-VI Ophioco	ephlidae						
5.	Ophiocephalus marulius	(Day)	Live fishes					
6.	Ophiocephalus	(Day)	Live fishes					

### 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	Feeding Habit
1.	Catla catla	<b>✓</b>	<b>~</b>		Plankton feeder
2.	Cirrihina mrigala	<b>✓</b>	<b>~</b>		Omnivorous
3.	Cirrihina reba	<b>✓</b>	<b>✓</b>		Predatory fish
4.	Cyprinus carpio	<b>✓</b>			Omnivorous
5.	Labeo bata	<b>✓</b>			Herbivorous
6.	Labeo calbasu	<b>✓</b>			Omnivorous
7.	Labeo fimbriatus	<b>✓</b>			Herbivorous
8.	Labeo gonius	<b>✓</b>			Herbivorous
9.	Labeo rohita	<b>✓</b>	<b>~</b>		Herbivorous
10.	Mystus aor	<b>✓</b>	<b>✓</b>		Predatory fish
11.	Mystus seenghala	<b>✓</b>	<b>~</b>		Predatory fish
12.	Wallago attu	<b>✓</b>			Predatory fish, LV
13.	Clarias batrachus	<b>✓</b>			LV, Carnivorous
14.	Miscellaneous	•	•		Predatory fish
15.	Ophiocephalus marulius	<b>✓</b>	<b>~</b>		LV, Predatory fish
16.	Ophiocephalus striatus	<b>✓</b>			LV, Predatory fish

LV - Larvaevorous

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