

**IDENTIFICATION OF FRESHWATER FISHES IN SOME  
PERMANENT RIVERS OF KERMAN PROVINCE**

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**Abstract**

The research of this project was carried out from 1996 to 1997. In this study , the fishes of the main rivers of this province ,namely : Baft, Soltani, Halil-rood, Delfard , Seyyed-Morteza, Rabor, Roodbar And Halil-Kouchak were Identified. During one year sampling from above mentioned rivers, a total of 771 samples were collected which they belong to 2 Orders, 3 Families and 7 species. The identification fishes were : *Capoeta damascina*, *Cyprinion watsoni* , *Garra persica*, *Carassius auratus*, *Cyprinus carpio* from CYPRINIDAE family. *Nemacheilus sargadensis* from BALITORIDAE family and *Channa gachua* from CHANNIDAE family.

**Introduction**

This research has been performed in the province of Kerman, South - east of Iran (55°25' to 33° of the northern Latitude and 26° 53' to 29° 59' of the eastern Longitude). The area of this province reaches 185674.7 Km<sup>2</sup> with five basins, Sixteen permanent rivers, tens of Seasonal Streams and hundreds of ranges of qanats.

The objectives of the research are as follows:

- 1- Identify the fresh - water fish within the region under study.
- 2- Make an atlas of the region's fish.

## Materials and methods

The geographical Location of the Streams was first determined using topographic maps of 1:250,000 and 1:50,000 Scales, and then after revisiting the rivers Some fishing stations were established. The fishing practice was normally fulfilled through the electricshock machine and various nets. The fish Caught were photographed and the samples fixed and sent to the Laboratory. The main elements to identify the fish were determined by use of the existing sources and based on the methods presented by Bery and Coad, and then a Series of forms were prepared for this Very purpose to record the information which finally Led to identify the region's fish.

## Results and discussion

Among 771 fish Caught from the permanent rivers of the region under study, 7 species of 2 orders and 3 families were identified out of which 4 93 belonged to the Cyprinidae family, 260 to the Cobitidae and 18 to the channidae. Also, the identified species were:

### 1- The Cypriniformes order.

A- The Cyprinidae family with the following Species:

1- *Carassius auratus gibelio*.

2- *Cyprinus Carpio*.

3- *Capoeta damascina*.

4- *Cyprinion watsoni*.

5- *Garra persica*.

B- The Cobitidae family with an only Species:

*Nemachilus Sargadensis*

### 2-The channiformes order.

The channidae family with only ,the *channa gachua* species.

Fresh waters are highly distinguished in terms of temperature, depth, current, solution and non - solution particles, oxygen, and the suspending constituents which generally cause any aquatic environment to have special fish of its own.

Also, the species variation in the specifid stations over the permanent rivers of the region under study was as follows:

From 6 stations only one species was caught from 9 stations two species, from 2 stations 3 species and from 2 stations 5 species. In general, the number of species in this study ranges from 1 to 5. Also from a sum of 19

stations under study, in 17 the Cyprinidae family was observed, in 12 the Cobitidae, and in 2 the Channidae. In sum 64% of all species belonged to the Cyprinidae family which appeared to be the dominant species within the basin, 37.7% to the Cobitidae and finally 2.3% to the Channidae family.



Channa gachua

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Table 1: Diffusion of the identified fish within the permanent rivers of jazmourian basin.

Rivers	Station	Capoeta damascina	Nemachilus Sargadensis	Cyprinion Watsoni	Channa Gachua	Carassius Auratus	Garra Persica	Cyprinus Carpio
Baft	Hasanabad Darehpahn	*	*	*				
Soltani	Polgogher Soltani Poldashtab	*	*					
Halilrod	Colki Daryacheh Bahadorabad	*	*	*	*	*	*	*
Dalfard	Kerah Akbarabad Koldon	*	*					
Saiedmorteza	Kondertil Hanza Joybadam	*	*					
Rabor	Polrodbar Cheshmeharo ss	*	*					
Rodbar	Polrodbar spich	*	*	*				
Helikochak	Darbaft		*	*				