

Inland Fisheries of Indus Ecoregion

Fact Sheet (010.09.04)

Introduction

At the juncture of both freshwater and marine habitats the Indus Delta is a highly productive ecosystem of the Indus Ecoregion. The area is c ritically important for the rich fish fauna and migrating water birds. The snow from the glaciers in the Himalayan Mountains fills in the 3000 km long Indus River providing mineral rich soil and water to the flood plains of Delta. Both the Indus River and the tributaries that feed it are home to many types of unusual fish and other animals. During the monsoon season the heavy rains inundate the Indus River from June to September. The flooding of the River Indus creates a delta of swamps, streams, and extensive mangroves before it enters into the Arabian Sea.

Many fish species live in or migrate through the waters of the Indus River Delta. The 'Hilsa Shad' swims up from the Arabian Sea to spawn in freshwater. This fast swimmer has been clocked at 43 miles (71 km) per day. Other unusual fish that live in the Indus include the Indus Baril, Indus Garua (a catfish), and the Rita catfish. Several snakehead fish also live here, including the Giant snakehead, which can grow to be 6 feet (2 m) long and eats fish, frogs, snakes, insects, and earthworms. There are even reports that it will occasionally eat a water bird! Fish species that are important to people as food, are the Golden Mahseer and large freshwater shrimp (Macrobrachium spp.) all of which are part of the abundant aquatic life of the delta.

The Indus River is home to about 179 species (including 15 exotic fish species) which belong to 82 genera, 26 families and 10 orders. These fishes include number of endemic like Indus Baril (Barilius modestus), Indus Garua (Clupisoma naziri) and Rita Catfish (Rita rita) and commercial fishes, such as Catla catla, Labeo rohita, Labeo calbasu, Cirrhinus and Channa species, Wallago attu. Several snake head fishes also live here, including the Giant snakehead (Channa marulius). Several fish species, such as Hilsa Shad (Tenualosa ilisha), return from the Arabian Sea to spawn in freshwater.





	Fish	Order	Family
	Catla catla		
	Labeo rohita		
ĺ	Labeo calbasu		
	Labeo gonius		
	Puntius		
	sophore		
	Puntius ticto	Cypriniformes	Cyprinidae
	Cirrhinus		
	mrigala		
	Cirrhinus reba		
	Salmostoma		
	bacaila		
	Barbus sarana		
	Mystus vittatus		
	Mystus	Siluriformes	Bagridae
	cavasius		
	Clupisoma		C -1-11 1
	garua		Schibedae
	Wallago attu		
	Отро	Siturnormes	
	bimaculates		Siluridae
	Heteropneustus		
	fossilis		
	Rita rita		Clupeiformes
	Mystud bleekri		Ciupenomies
	Gudusia		Clupidae
	chapra		Стартаас
	Notopterus	Clupeiformes	
	notopterus	1	Notopteridae
	Notopterus		
	chitala		
	Channa	Channiformes	Channidae
	morulius Channa		
	punctatus		
	Channa		
	striatus		
	Xenentodon		
	cancila	Beloniformes	Belonidae
	Chanda ranga	Perciformes	
	Mastacembelus		
	armatus		
	Mastacembelus		Chandidae
	pancalus		
	Macrognathus		
	oculeatus		
	Oreochromis		Cichlidae
	mossambicus		Ciciliuae
	Glossogobuis		Gobidae
	giuris		Goordac







Current Scenario

Recent developments such as the construction of reservoirs, canals and barrages upstream, has resulted in reduced water flow to the lower reaches of the Indus. Compounded with very little precipitation in the area the amount of water reaching the delta is barely sufficient to support the ecosystem. The disposal of untreated sewage and industrial pollution has led to the destruction of mangroves, a nursery and shelter zone of fish species. The extreme decline in water

flow towards the sea in the delta for over two decades has caused eradication of mangrove forest to one-third, submergence of over 2.2 million acres of fertile land into sea, depletion of fisheries resources, pushing two million people below the poverty line and forcing migration of nearly 0.3 million people from the deltaic areas.

The total production of some of the important commercial fin fish and shell fish mostly found in creeks and mangroves areas of the Indus Delta for the period covering the last five years (1997-2001) is given in the table. T.ilisha and Elentheronema tetradactylum shows a drastic decline during the last two years.



Sindh has an annual production of 394,000 tonnes in 2005-2006, an increase of almost 3% over preceding year (109,000 tonnes of inland fisheries).

Threats and Challenges

Insufficient discharge of freshwater	
Scarcity of water during breeding season	
Intrusion of sea water in river beds	
Loss of mangrove cover resulting in decreasing reproduction	
Poor water quality	
Dumping of untreated effluence	
Over fishing and depletion of fish stock	
Use of illegal nets	

For Further Information
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