

**Technological Innovations in
Biodiversity for Sustainable
Fisheries Management**

Technological Innovations in Biodiversity for Sustainable Fisheries Management

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Preface

“TECHNOLOGICAL INNOVATIONS IN BIODIVERSITY FOR SUSTAINABLE FISHERIES MANAGEMENT” Biodiversity losses have been, in large part, due to anthropogenic actions, such as overfishing and dam construction. Unfortunately, in the past, fisheries management decisions were not evaluated or monitored for success. Recent we have shown that if several of these management actions had been abandoned at an earlier date, considerable money, time and effort would have been saved. In this book we present the main fishery management actions taken in the link them to biodiversity concerns.

Several management techniques have been employed to minimize these problems. The history of natural resource management is full of spectacular mistakes and, unfortunately, managers rarely change their approaches according to past experiences.

Fisheries management and conservation draws on science in order to find ways to protect fishery resources so sustainable exploitation is possible. Modern fisheries management often involves regulating when, where, how, and how much fishermen are allowed to harvest to ensure that there will be fish in the future. This work on fisheries management and conservation covers a broad array of chapters on this field of growing importance. It includes on illegal fishing, recovery of endangered fish, effective management of fisheries, fish invasions in river systems, selection of fishing areas, conservation efforts, and more.

Indian aquaculture is primarily limited to inland sector and carp-oriented; for that reason, this activity received special attention. Freshwater aquaculture observed tremendous growth in the past 15 years, but immense scope still exists for horizontal expansion and increases in productivity (vertical expansion). Most of the aquaculturists were practicing extensive aquaculture, but aquaculturists with semi-intensive operations benefited most from adoption of technology. Growing urbanization, globalization and rapidly changing social structures have had a major impact on the fisheries structure in the country. Fisheries and aquaculture have emerged as an important commercial activity from its traditional role as subsistence supplementary activity.

The development of fisheries is therefore, one of the most promising industries. In this lesson, you will learn about many varieties of fish, their

collection, rearing, breeding and their economic importance. The concerned with the production of fish in lakes, rivers, large ponds, canals and is called fresh water or inland fisheries. Fish constitutes the most important part of the diet of many people. The fisheries sector has been playing an important role in the Indian economy by its contributions to employment generation, income augmentation, foreign exchange earnings, providing food and nutrition security.

Editors

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