

# 7th international conference on aquaculture fisheries

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Exploring the World of Aquaculture: A Comprehensive Overview\*\*

### **Defining Aquaculture**

Aquaculture, also known as the term "fish farming," refers to the cultivation of aquatic organisms in controlled environments for commercial or recreational purposes. It involves the breeding, rearing, and harvesting of fish, shellfish, algae, and other aquatic species.

### **Concept of Aquaculture**

The concept of aquaculture is based on the idea of managing and enhancing aquatic ecosystems to create optimal conditions for the growth of aquatic organisms. This involves regulating water quality, providing adequate nutrition, and controlling environmental factors such as temperature, salinity, and oxygen levels.

### **Difference Between Mariculture and Aquaculture**

While both mariculture and aquaculture involve the cultivation of aquatic organisms, they differ in their location. Mariculture refers specifically to the cultivation of marine species in saltwater environments, such as oceans or estuaries. Aquaculture, on the other hand, encompasses both marine and freshwater environments.

### **Difference Between Aquaculture and Pisciculture**

Pisciculture is a specialized branch of aquaculture that focuses solely on the cultivation of fish. In contrast, aquaculture includes the cultivation of a wider range of

aquatic organisms, including shellfish, algae, and other aquatic plants.

## Importance of Aquaculture

Aquaculture has become increasingly important in meeting the growing global demand for food. It provides a sustainable source of protein and essential nutrients. Additionally, aquaculture supports economic growth, creates jobs, and promotes coastal development.

## Processes of Aquaculture

Aquaculture involves several key processes:

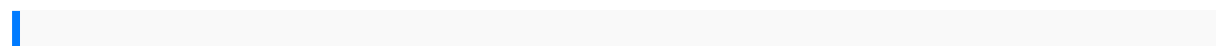
- **Stocking:** Introduction of aquatic organisms into the aquaculture system
- **Rearing:** Maintaining and monitoring the aquatic organisms throughout their growth cycle
- **Feeding:** Provision of appropriate nutrition to ensure optimal growth
- **Harvesting:** Capture and processing of the aquatic organisms for market

## Definition of Fishery

A fishery refers to the harvesting of aquatic organisms from natural or semi-natural water bodies, such as oceans, rivers, or lakes. It involves the use of fishing gears and methods to capture wild fish and shellfish.

## Meaning of Aquafarm

An aquafarm is a designated area or facility where aquaculture takes place. It can be a land-based facility, such as a hatchery or grow-out pond, or a marine environment, such as a net cage or floating raft.



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