

AQUACULTURE I

1. WEEK

WHAT IS AQUACULTURE?

WEEKLY TOPICS

WEEK	TOPICS
1. WEEK	WHAT IS AQUACULTURE?
2. WEEK	IMPORTANCE OF AQUACULTURE
3. WEEK	AQUACULTURE: ANIMAL PROTEIN
4. WEEK	HISTORY OF AQUACULTURE
5. WEEK	ORGANISATION OF AQUACULTURE
6. WEEK	CHARACTERISTICS OF AQUACULTURE
7. WEEK	POND CULTURE
8. WEEK	IN STATIC FRESHWATER PONDS
9. WEEK	IN BRACKISH-WATER PONDS
10. WEEK	RUNNING WATER CULTURE
11. WEEK	CULTURE IN RE-CIRCULATORY SYSTEMS (RAS)
12. WEEK	AQUACULTURE IN RACEWAYS, CAGES, AND ENCLOSURES
13. WEEK	MONOCULTURE AND POLYCULTURE
14. WEEK	RECENT ADVANCES IN AQUACULTURE



- **Aquaculture**

- **Aquaculture is the farming of aquatic organisms in both coastal and inland areas involving interventions in the rearing process to enhance production.**

- **It is probably the fastest growing food-producing sector and now accounts for 50 percent of the world's fish that is used for food.**

<http://www.fao.org/aquaculture/en/>



- Aquaculture

- Key facts

- In the 1970s, aquaculture produced about 3 million tonnes of fish

- By 2015, world aquaculture production reached 76.6 million tonnes valued at USD157.9 billion (farm-gate value)

- It employs some 23 million workers, 16 million directly and about 6.5 million indirectly

- In 2012 the Asia-Pacific region continued to dominate the aquaculture sector, accounting for 88.5 percent of global production

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- ▶ Aquaculture
- ▶ FAO's role in aquaculture
- ▶ Aquaculture development
- ▶ About 567 aquatic species are currently farmed all over the world, representing a wealth of genetic diversity both within and among species.
- ▶ Aquaculture is practiced by both some of the poorest farmers in developing countries and by multinational companies.


<http://www.fao.org/aquaculture/en/>




▶ Aquaculture

- ▶ Eating fish is part of the cultural tradition of many people and in terms of health benefits, it has an excellent nutritional profile. It is a good source of protein, fatty acids, vitamins, minerals and essential micronutrients.
- ▶ Aquatic plants such as seaweed are also an important resource for aquaculture as they provide nutrition, livelihood and other important industrial uses.

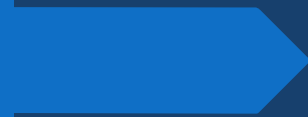
<http://www.fao.org/aquaculture/en/>

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- ▶ Aquaculture
 - ▶ Eighty percent of current aquaculture production is derived from animals low in the food chain such as herbivorous, omnivorous fish and mollusks.
 - ▶ Based on its dynamic performance over the last 30 years, and with fairly stable catches from capture fisheries, it is likely that the future growth of the fisheries sector will come mainly from aquaculture.

- ▶ Aquaculture
- ▶ Asustainable aquaculture strategy needs:
 - ▶ a recognition of the fact that farmers earn a fair reward from farming
 - ▶ to ensure that benefits and costs are shared equitably
 - ▶ to promote wealth and job creation
 - ▶ to make sure that enough food is accessible to all
 - ▶ to manage the environment for the benefit of future generations
 - ▶ to ensure that aquaculture development is orderly, with both authorities and industry well organized

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- Aquaculture
 - The ultimate aspiration is for aquaculture to develop its full potential so that:
 - communities prosper and people are healthier
 - there are more opportunities for improved livelihoods, with an increased income and better nutrition
 - farmers and women are empowered

- Aquaculture
- Aquaculture and FAO
- FAO recognizes the fast-growing contribution aquaculture is making to food security, providing technical assistance through the implementation of the Code of Conduct for Responsible Fisheries, which:
- promotes sustainable aquaculture development, especially in developing countries, through better environmental performance of the sector, through health management and biosecurity
- provides regular analysis and reporting of aquaculture development status and trends at global and regional levels, sharing knowledge and information
- develops and implements efficient policies and legal frameworks which promote sustainable and equitable aquaculture development with improved socio-economic benefits

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