

Hatchery fry / Seedstocks

AQD production includes abalone, milkfish, groupers, seabass, siganid, mangrove snapper, pompano, mud crab, and native white shrimp.



In 2009, AQD produced a cumulative total of approximately 8.4 million seedstocks of marine fishes and abalone juveniles. AQD has a total production capacity of 300 tons for larval rearing of marine fishes and 4.2 tons for abalone juveniles.

Feed formulation / Feed milling

Feeds have been formulated to be less-polluting and these formulations can be obtained from AQD by arrangement. AQD's feed mill can produce a maximum of four tons per day.



Training courses

AQD also offers training courses which comprise 20% lecture and 80% practicals. Medium of instruction is English. Special sessions may likewise be arranged for requesting parties.



AQD also accepts internships and student practicum which are readily arranged for individuals or small groups.



Bookstore

AQD publishes aquaculture materials which are descriptive of its science-based technologies. Manuals, monographs, flyers, textbooks, among others, are available for sale at the AQD Bookstore.



Library



AQD Library has one of the best collection of books, journals, and other materials on aquaculture in Southeast Asia. The library is open Mondays to Fridays, from 8 am to 5 pm. Internet access is provided for free to students and AQD trainees.

FishWorld



FishWorld is a museum-aquarium-visitor center that promotes informal education for responsible aquaculture in particular, and environment protection and sustainable development in general. FishWorld also conducts R&D internship for high school students.

Tour of AQD stations / Conference / Training facilities

Tour of AQD stations is available by arrangement. Activities hosted at AQD's Tigbauan Main Station may use its conference and training facilities.



Training Laboratory



Conference Room



Apartment / Dormitory



Guest house



Clinic



Mini Gym



Tennis court



Cafeteria

Other amenities available at AQD include:

- apartment and dormitory
- guest house
- medical/dental clinic
- mini gym
- tennis/volleyball/ basketball courts
- softball/football fields
- cafeteria
- internet/wifi

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The Southeast Asian Fisheries Development Center (SEAFDEC) is a regional treaty organization established in December 1967 to promote fisheries development in the region through research, training and information services. Its member countries include Brunei Darussalam, Cambodia, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Vietnam.

The Aquaculture Department (AQD), one of SEAFDEC's four departments, is mandated to implement programs in research, technology verification and demonstration, and training and information dissemination in order to promote responsible aquaculture in Southeast Asia.

Tigbauan Main Station



Established in 1973, the Tigbauan Main Station (TMS) is the SEAFDEC AQD headquarters located in the south coast of Panay Island. The 40-hectare complex includes various research laboratories, hatcheries, and broodstock facilities for experiments in artificial propagation, feed development, and health management. TMS also has training facilities, library, and medical clinic. On-campus housing and cafeteria cater to resident staff, trainees, guests, and visiting researchers and their families.



Facilities



Multi-species marine fish hatchery



Integrated fish broodstock and hatchery complex



Crustacean hatchery



Seahorse hatchery



Sandfish hatchery



Abalone hatchery



Small-scale backyard hatchery



Feedmill



Natural food laboratory



Fish health laboratory



Laboratory for advanced technologies (BIOTECH)



Experimental infection building

Research & development

The economically important commodities being studied at AQD include:

- Milkfish
- Grouper
- Seabass
- Snapper
- Siganid
- Pompano
- Seahorses
- Mudcrab
- Abalone
- Seaweeds
- Sandfish
- Tiger shrimp
- Bighead carp
- Tilapia
- Freshwater prawn
- Indigenous species (climbing perch, silver therapon)



The areas of study include basic and applied research on all life stages (broodstock, hatchery nursery and grow-out) of the above species. Studies on nutrition and feed development, fish health management, ecology and farming systems, economic viability of cultured commodities and the promotion of sustainable aquaculture technologies are also being done to ensure comprehensive and holistic development of aquaculture and enhance its role in securing food and livelihoods in fishing communities.

AQD has strong linkages with foreign institutions and international agencies, and works closely with various universities, fishery schools, and government agencies in the Philippines and the Southeast Asia region.

Research programs

Integrated mollusk

AQD continues to refine abalone hatchery techniques to improve the settlement and survival of postlarvae and develop the overall reproductive performance of broodstock by focusing on formulated diets.

Domestication of shrimp & mudcrab

AQD's domestication program is directly focused on selective breeding and better husbandry techniques in all culture stages like broodstock management, larval rearing, nursery, grow-out and fattening.



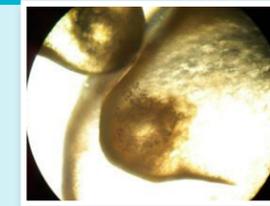
Marine fish

The marine fish program of AQD continuously upgrades culture technologies towards sustainable aquaculture development, poverty alleviation, and reinforcement of aquatic resources and food security in Southeast Asia.



Seaweed strain improvement

AQD's seaweed program focuses on strain improvement using the relatively new area of protoplast research. The program aims to assist industry to obtain new planting materials that grow fast and are adaptable to climate change.



Aquatic ecology

AQD continues to conduct studies integrating environmental factors in all its researches to achieve science-based and environment-friendly aquaculture technologies.



Products and services

Technical assistance / consultancy

AQD provides technical assistance and consultancy in hatchery, netcage or fish farm operation; disease diagnostic laboratory installation; feed formulation; fish health management; and stock enhancement program development



Disease diagnostics / Analytical services

Molecular Microbiology Laboratory

- detection of shrimp and fish viruses by PCR-based techniques
- electron microscopy of biological samples (scanning and transmission)
- microbiological analyses of food, products, water, etc. (coliform count, *Salmonella*, *Shigella*, *S. aureus*, *E. coli*, yeast/mold count, water potability)



Algal Production Laboratory

- sale of culture media and starter stocks

Centralized Analytical Laboratory

- analyses of chemicals in fisheries and aquaculture products
- analyses of water and soil
- proximate analyses
- fatty acid / amino acid profile



Fish Feed Technology Laboratory

- development of environment-friendly feeds
- improvement of feed conversion and growth of farmed species



Plankton starters available for sale



- **Green algae** (*Tetraselmis tetrahele*, *Chlorella* sp., *Nannochlorum* sp.)
- **Brown algae** (*Chaetoceros calcitrans*, *Skeletonema tropicum*, *Thalassiosira* sp., *Navicula* sp., *Amphora* sp.)
- **Golden brown algae** (*Isochrysis galbana*)
- **Zooplankton** (*Brachionus plicatilis*)