

Southeast Asian Fisheries Development Center

Aquaculture Department

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01 SEAFDEC/AQD Publications

Brochures and flyers

2017

Dumangas Brackishwater Station

Aquaculture Department, Southeast Asian Fisheries Development Center

SEAFDEC Aquaculture Department. (2017). Dumangas Brackishwater Station [Brochure].
Tigbauan, Iloilo, Philippines: Author.

<http://hdl.handle.net/10862/3544>

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Services

The station accommodates students, technicians, and all interested parties for study-visits and hands-on training on brackishwater aquaculture. DBS staff also provides technical services to fish farmers by offering consultation on culture of fish and crustaceans in ponds. The station also accepts samples for water and soil quality analyses.



Training activities for students and private individuals



Lectures on production of economically important aquaculture species in ponds



Production harvest at DBS (seabass; top and snapper; below)

About SEAFDEC



The Southeast Asian Fisheries Development Center (SEAFDEC) is an autonomous intergovernmental body established as a regional treaty organization 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 Viet Nam.

The Aquaculture Department (AQD), one of SEAFDEC's five 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.



Southeast Asian Fisheries Development Center
AQUACULTURE DEPARTMENT
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Dumangas Brackishwater Station



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The **Dumangas Brackishwater Station (DBS)** of SEAFDEC Aquaculture Department is about 20 km northeast of Iloilo City, Philippines. DBS has a 16-ha pond area intended to verify research and demonstrate developed aquaculture technologies. It houses a staff field office, dormitory for trainees, and a field laboratory for routine water and soil quality analyses.



History

The research ponds were donated by the Philippine's Department of Agriculture to SEAFDEC/AQD in 1998 and has since hosted various research, technology verification and demonstration studies.

Research and verification studies

Tiger shrimp and white shrimp

The technology for the farming of tiger shrimp (*Penaeus monodon*) using environment-friendly schemes was developed and verified in DBS. Studies on nutrient dynamics of shrimp culture systems and bioremediation strategies were also conducted. White shrimp, *Penaeus indicus*, are also being grown to marketable size for verification study.



Tiger shrimp (*Penaeus monodon*)

Mangrove crab (mud crab) and blue swimming crab

Research activities on mangrove crab (*Scylla serrata*) include polyculture with milkfish and monoculture in ponds. Likewise, demonstration and verification of mangrove-friendly aquaculture in pens for crab fattening were



White shrimp (*Penaeus indicus*)

conducted. Current research focuses on determining the feasibility of mangrove crab and blue swimming crab (*Portunus pelagicus*) nursery in net cages inside ponds. Likewise, soft-shell crab production using hatchery-produced seedstocks is being demonstrated.



Crab fattening in bamboo pens



Soft-shell crab production set-up

Milkfish

Several studies were done on the improvement and verification of grow-out culture techniques of milkfish (*Chanos chanos*) in ponds. Recent study on milkfish focuses on verification of feeds using alternative ingredients in pond culture systems.



Milkfish (*Chanos chanos*)

Marine fishes

The activities conducted in the station include the following: verification and demonstration of nursery and grow-out of snapper (*Lutjanus argentimaculatus*), grouper (*Epinephalus coioides* and *E. fuscoguttatus*), rabbitfish (*Siganus guttatus*), pompano (*Trachinotus blochii*) and sea bass (*Lates calcarifer*). Production runs are currently being done to demonstrate the feasibility of nursery and grow-out culture in ponds.



Grouper



Sea bass



Snapper



Rabbitfish

Oyster

Nursery and grow-out of hatchery-produced oyster (*Crossostrea iredalei*) in pond are currently being demonstrated.

Seaweeds

A study on the pond production of *Gracilariopsis heteroclada* using short term nitrogen-enriched plant materials is being demonstrated at the station.



Nursery and grow-out culture of hatchery-produced oyster spats

Biosecurity measures

To prevent the occurrence and spread of diseases, proper biosecurity measures are implemented. There are quarantine and laboratory facilities to support the biosecurity measures at DBS. The station's stocks are also monitored routinely by AQD's disease-diagnostic laboratory in SEAFDEC's Tigbauan Main Station.



DBS has laboratory facilities to support biosecurity measures



Quarantine tanks



Filtration system