For further information

Dumangas Brackishwater Station

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 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.

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The Dumangas Brackishwater Station (DBS) of SEAFDEC Aquaculture Department is located 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 chemical analysis.

**History**

The research facility was donated by the Philippine’s Department of Agriculture to SEAFDEC in 1998 and has since hosted various research, technology verification and demonstration studies.

**Research and verification studies**

**Tiger 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.

**Mud crab**

Research activities on mud crab (*Scylla serrata*) include polyculture with milkfish and monoculture in ponds and in tidal flats with existing mangroves. Demonstration and verification of mangrove-friendly mud crab culture in pens and mud crab fattening were likewise studied here. Current work on mud crab focuses on the verification of its nursery culture in net cages.

**Milkfish**

Several studies were done on the improvement and verification of grow-out culture techniques of milkfish (*Chanos chanos*) in ponds. Recent studies on milkfish are on refining nursery techniques in ponds; polyculture with shrimps and crabs; and use of alternative feeding strategies, and fish meal substitutes.

**Marine fishes**

The activities conducted in the station include the following: verification and demonstration of nursery culture of snapper (*Lutjanus argentimaculatus*) and Asian sea bass in nets in brackishwater ponds; verification and demonstration of nursery culture of siganids (*Siganus guttatus*) in ponds using SEAFDEC/AQD formulated diets with plant and animal protein sources; verification of grow-out culture in ponds of grouper (*Epinephelus spp.*) and Asian sea bass (*Lates calcarifer*). Recent research conducted at the station includes verifying and refining the nursery and grow-out culture of grouper, sea bass, rabbitfish, snapper and pompano (*Trachinotus blochii*) in ponds using SEAFDEC/AQD formulated diet.

To prevent the occurrence and spread of diseases, proper biosecurity measures are implemented in the station. DBS stocks are also monitored routinely by AQD’s disease-diagnostic laboratory in SEAFDEC’s Tigbauan Main Station.

**Services**

The station accommodates students, technicians, and all interested parties for study-visits and hands-on training on brackishwater aquaculture.

DBS also provides technical services to fish farmers by offering consultation as well as physico-chemical analysis of water and soil.