

Hiroshima Prefectural Farming Fisheries Center

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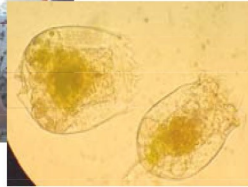
Website address <http://www.hiroshima-pffa.or.jp/>
 ○ Establishment March 27, 1982
 ○ Total construction cost About 3.7 billion yen

Field trip date: year/month/day

Water tank rearing Japanese blue crab



Rotifers are live feeds (milk) for baby fish (juvenile). The size of each rotifer is approximately 0.4 mm. 10 billion pieces of rotifers are needed for baby fish every day.



Rotifer
(*Brachionus plicatilis* sp.complex)



Algae culture tank

A type of phytoplankton called Nannochloropsis is made (cultured) to increase the number of rotifers. Its size is 0.002 mm and it has green color.



Seawater filtration apparatus

The seawater is used after being filtered in the filtration apparatus. 12,000 tons (max.) per day of seawater is used



Greasy-back prawn (*Metapenaeus ensis*)

Greasy-back prawn about 12 mm in body length



Japanese blue crab

Juvenile Japanese blue crab grown to reach 5 mm in body length, They are released with the artificially-made algae attached to the body.



A staff member is measuring the fish size. The important thing in rearing fish is to observe the juvenile fish every day.

Oyster production building



Broodstock (adult) oyster



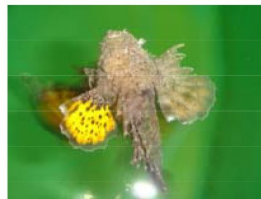
Seawater sterilization apparatus

The filtered seawater is further sterilized to make the water clean for use in the rearing tanks. This is a special apparatus to sterilize seawater with ultraviolet beam.

Rearing tanks for Japanese rockfish, marbled rockfish, red sea bream, devil stinger, and sweetfish



Juvenile devil stinger



A juvenile oyster



Juvenile oysters
Juvenile oysters are grown in tanks from the eggs until they are ready to attach to the rocks. The size of a juvenile oyster is about 0.3 mm

Oyster attachment facility



These are water tanks where juvenile oysters attach themselves to the strings of scallop shells. The strings with attached juvenile oysters are hung from the rafts to make them grow.

Rearing facility for juvenile oysters



The attached juveniles are reared for a period between 14 and 20 days being hung from the rafts. They are shipped when they grow to about 3 mm.

Automatic feeder



In addition to rotifers, powdered feed called "formula feed" is given.











Automatic cleaner



The cleaner cleans up the residuals of the feed settled at the bottom of the water tank and dead fish, in order to prevent disease from spreading to other fish.

Species of fish reared in the Farming Fisheries Center

(Planned production number of fish for FY2019)

	Redspotted grouper	Pacific oyster		Red sea bream	Japanese blue crab	Greasy-back prawn		Sweetfish	Japanese rockfish	Devil stinger	Marbled rockfish	
												
Number of fish for growing	73,000 pieces	1.5 million sheets	800,000 pieces	1.28 million pieces	2.072 million pieces	810,000 pieces	65,000 pieces	2.0 million pieces	316,000 pieces	495,000 pieces	388,000 pieces	
Size	6cm	Shell height 3mm	single-piece 10mm	1.2cm	1cm	1.2cm	2.5cm	5cm	2.5cm	3cm	2.5cm	
Period for growing	From July to October	From March to November		From April to June	From May to July	From June to August		From September to January	From January to April	From May to September	From January to April	
Intermediate growing	Not applicable	Not applicable		Applicable	Not applicable	Applicable		Applicable	Applicable	Not applicable	Not applicable	
Stocking (release) size	5cm	For aquaculture		5cm	1cm Direct stocking (releasing)	2.5cm		8cm	5cm	3cm	2.5cm	

Intermediate growing means to grow the juvenile fish grown in the Farming Fisheries Center in another place until they grow to reach a large size for stocking bastard halibut 376,000 pieces (stocking size 7 to 10 cm)