

Grey Mullet (*Mugil cephalus*) a species with breeding ability in fresh and sea water

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Abstract

Mugil cephalus is an important species of fish in many parts of the world. To observe the technique of keeping and growing this species of sea fish in our country's climate, the cultivar of *Mugil Cephalus* was carried out. Baby fish are supplied from Hong Kong and after initial adaptation with fresh water and Caspian Sea to measure physico-chemical compatibility and determine the biological indices of the water of the breeding environment in a earth pond (fresh water) with an area of 1000 square meters, 1000 pieces And in an earthy pond(Caspian Sea water 12-13 ppt) with an area of 4000 square meters, 5000 pieces of fish were release at an average weight of 0.5 grams. The results of breeding in two years, while confirming the compatibility of this species with different environmental conditions, allowed the production of market fish with an average weighing of 650 to 700 grams. The results of this study provided the possibility of introducing gray mullet the marine fish farming industry with using Caspian Sea water for breeding in the enclosed pen and cage, in the country.

Keywords: Gray mullet, Breeding, adaptability , Freshwater, Salty Water.cage