

# Grey Mullet (*Mugil cephalus*) a species with breeding ability in unconventional waters

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**ABSTRACT:** *Mugil cephalus* is a commercial and cultivated fish in many parts of the world. With the aim of obtaining the technique of keeping and breeding this species in our country's climate and introducing the aquatic cultivation of the country, the cultivars of *Mugil Cephalus* were 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 (brackish 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 confirm the ability to use water resources, with different salinity (up to salinity of seawater) for the maintenance and production of gray mullet, the possibility of introducing this economic and market-favorite species to the country's fish farming industry using unconventional water resources in Aquaculture. This is a good way to manage and improve the productivity of water resources in the aquaculture industry in the country.



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