

# **Water temperature changes of Caspian Sea in cageculturs establish and effects on fish production (Kelarabad region)**

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## **Abstract**

Increasing population and increasing demand for protein sources, as well as restrictions such as land and fresh water for drinking and farming, have led aquaculture specialists to transmit

aquatic species to marine enclosed environments. Power is the best solution for faster production. In this case, the study and measurement of water temperature in this area is very important. This activity was carried out in line with a research project in the Kelarabad region at the fish Breeding Cage culture in 2013. The temperature of the air was measured through a mercury thermometer and the water temperature was measured by a thermometer. The results showed that the surface water temperature fluctuated from 11 ° C in the winter to 30 ° C in the summer. The lowest range of water temperature changes was 20 meters at 9.5 ° C. The results shows that the depth of less than 20 meters is not suitable for keeping Salmon and sturgeon fish during the summer.

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