

Effects of temperature and season on biofouling in south-west fish cages of the Caspian Sea

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Abstract

Developing fish farming in cage, give such a valuable help for gaining animal protein and also making variety in people's possibilities for making choices what to eat. With increasing growth of this newly found industry, study of biofouling and also the impact of environment, seems essential and necessary. Thus, a research was done by installing a panel beside the cage of fish farming located in western south waters of Caspian sea Guilan province. Installing the panels was done in 3 time periods 13 February till 19 April (cold period), 19 April till 20 June (hot period) and in the whole area. The results demonstrate that in panels of biomass hot period, density and cover present (eye observation and photo) is meaningfully more than the panel of the cold season. Also because two month panel were in the environment for a shorter period of time, had considerable difference than the four month panel. We concluded that with increasing the amount of biofouling in hot seasons. Therefore the methods used in order to prevent biofouling on the net of the cages for fish farming must be installed according to the periods of fish farming.

Keywords: Aquaculture, Cage culture, Kiashahr, Guilan, Caspian Sea.