The environmental impact of Sturgeon pen culture in Gorgan Gulf

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Abstract

The percent study was carried out to determine the impact of Sturgeon pen culture activities on the water quality from August 2015 to July 2016 in Gorgan Gulf. The study was done at 3 pen culture sites in Ashoradeh Island, Bandar- Turkman. Sturgeons with averaged weight of 21.00 ± 12.28 kg/pen and 25.00 ± 21.66 Pieces/pen were taken from sea respectively. 5 sampling stations with 3 repetitions were selected which were in distance 0, 5, 25, 50 and 100 m from pen sites. Results of season variations of Physico – chemical factors of water showed that, the maximum amount of Chol a, BOD5, COD, NO2-and TAN were in the station which was 25 m far from the pen sites which showed a significant difference with the other stations (p<0.05). These results indicate that the pen culture had maximum effect on water quality in distance 5 m far from the pen site.

Keywords: Environmental, Sturgeon Fish, Pen, Gorgan Gulf