Evaluating the possible effects of aquaculture in cages culture on Seymareh Reservoir

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Abstract:
The aim of this study was to evaluate the possible adverse effects of cage culture in Seymare reservoir. An overview was done of the nutrient values in the dam reservoir and their relationship between aquaculture and ecosystem stability. The prediction of the potential environmental hazards in the future was due to aquaculture production in the reservoir through OECD modeling. Current surveys show that in terms of total nitrogen and phosphorus of the whole reservoir, according to the standard GB 3838-2002, this reservoir is in a relatively good quality water class. With the potential, we can conclude aquaculture production through cage culture in Seymare reservoir, which is still under standard II class after the construction of the cage in the first year, and the quality of water does not change much.

Key words: aquaculture, OECD model, total nitrogen, total phosphorus, Seymare dam