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Impact of environment parameters and the freshness of the ova on the reproductive performance of *Oncorhynchus mykiss* in Morocco

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The objective of the study was to assess the impact of water oxygen concentration and ambient light on the success rate of egg development until hatched rainbow trout (*Oncorhynchus Mykiss*, Walbaum, 1792) as well as the success rate of artificial fertilization according to the freshness of the ova (*in vitro* aging) of the spawners of the Ras Al Ma salmon farming station. The results obtained show that the mean success rate varies between 73% and

69% of the eggs development depending on the oxygen concentration, 76% for the eggs incubated in the dark versus 47% only for the eggs exposed to ambient light. With regard to fertilization success rates according to their freshness (t0, t1, t2, t3 and t4 hours), the results showed that it is about 71% for the fertilized eggs just after being collected from spawners and gradually decreases to reach only 30% four hours after the stripping.

Biography

El Hassan Abba is working as a professor and the head of Department of Environmental Engineering and Agrobiotech Higher School of Technology / Khenifra University Moulay Ismail / Meknes, Morocco. He has published many research papers in reputed journals.

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