Investigating the possibility of carp farming (*Cyprinus carpio* Linnaeus1758) in earthen ponds with salty and fresh water

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Abstract:
In order to achieve the technology of sea carp breeding (1758 (Cyprinuscarpio Linnaeus in fresh water and saline lip by single species method), in the form of two treatments, each with 3 repetitions and using fresh water, sturgeon breeding and breeding workshop Fisheries - Fisheries and Saltwater Lakes of Qarah Su Research Station raised this fish. For this purpose, fish with an average initial weight of 41 grams after transfer with special tankers equipped with oxygen and co-operation and adaptation, with a density of 3500 pieces per hectare in pools. 0.4 hectare of storage soil and GFC (Dansu feed) concentrate feed of Mahdaneh factory at 5 to 10% of body weight in the pools next to the pool, fed twice a day. Drying, plowing and discing operations and finally lime spraying were carried out in order to eliminate harmful and harmful organisms according to standard methods and the fish were disinfected in 300 liter tanks for more than 10 minutes instead of storage with 2.5% salt solution. At the end of the six-and-a-half-month breeding period, feed conversion ratio, average daily growth, weight gain were analyzed and statistical analysis of T-Test were performed. The results of breeding in freshwater showed that the average weight was 41 to 712 grams and the average length was increased from 14 to 40 cm. This increase in carp in farmed saltwater was reported to be 702 g and 34 cm, respectively. The average daily growth rate is 3.44 and 3.40, the feed conversion ratio is 2.30 and 2.27, the average obesity ratio is 1.06 and 1.72, and the survival rate is 81.83 and 80.34%, respectively, for farmed fish in pools, respectively. Freshwater and brackish water, which did not show any statistically significant difference ($P < 0.05$). Therefore, sea carp is an option that can be easily grown both in fresh water and in brackish water.

Keywords: Sea carp, freshwater, brackish water, earthen pools