



Reusing wastewater of earth ponds to increase production of earth ponds of rainbow trout (*Oncorhynchus mykiss*)

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The objective of this study was to increase production through reusing wastewater of earth ponds. The study was carried out in brakish water at Saeed farm near bafgh station and performed in 2 treatments with 2 replications. Each treatment consisted of 2 earth ponds and 2 round cement pond with 6 meter thickness and 30 m³ volume were performed in outlet of earth ponds. The wastewater of earth pond flow in cement pond through pumping and gravity force. The cement ponds aerated with water splash. The initial weight of stocking was 25 g and density of stocking was one and 70 per square in earth pond and cement pond, respectively. Temperature and salinity during the experiment period was 14±4 °C and 12/8 ±5 g/l. Mean production in T₁, T₂ was 2193 kg and 2831 kg respectively. The results of this study indicated that none of phisio-chemical factors were crucial in culture conditions. There was significant difference (P<0.05) among 2 treatments on some growth factors. The results also showed that through reusing wastewater of earth ponds, production and income increased up to 31% & 41%, respectively.

Keywords: Reuse, *Oncorhynchus mykiss*, Mud ponds, Wastewater, Cement pounds, Brakishwater

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