

Growth index and product of Rainbow trout (*Oncorhynchus mykiss*) in earthen ponds with the usage of underground brackish water

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Abstract

The present study was carried out in order to obtain the possibility of growing and defining growth indices in relation to rainbow trout farming in a pond of underground (well) to salinity of 14 ppt in

Esfarayen region, under suitable temperature conditions in autumn and winter It is being implemented. The activity was performed in two soil ponds each with an area of 3000 square meters with a mean individual weight of 23 grams in 160 days. In the first and second ponds, the fish weight gain was 367 g and 317 g, the survival rate was 82% and 88% respectively, and the final fish production was 6882 kg and 6416 kg, respectively. The results showed that there is a significant potential for production and weight indicators in relation to fish Rainbow trout breeding in the soil pools of this region and other similar areas is based on the use of water and soil saline surface and sub-surface.

Keywords: Rainbow trout, growth index, production, earthworm, salty water