

The Importance of Using Decision Support Systems (DSS) in Cage Aquaculture

Adel.Hosseinjani^{1*}, Mohammad.Sayyad Bourani², Fariborz.Jamalzar Fallah³

1, 2- Iranian fisheries Science Research Institute, Inland Water Aquaculture Center, Agricultural Research Education and Extension Organization (AREEO), Anzali, IRAN

3- Gilan Academic Center for Education, Culture and Research, IRAN

*Corresponding author e-mail: a.hosseinjani@areeo.ac.ir

Abstract

In recent decades, The Cage aquaculture is expanding worldwide. The researchers predict that fish consumption in developing countries will increase by 57%, from 62.7 million tons at the beginning of the 20 century to 98.6 million in 2020, and cage aquaculture can play an important role in this way. It needs efficient management systems for the Planning and management tools for Sustainable development. Despite the expected economic benefits, the development of aquaculture can have adverse effects on the environment and the sustainability of the environment. Today, decision-making systems and decision-making processes can reduce the investment risk and the effects of cage aquaculture by modeling and simplifying the decision-making process and management. In this article, we introduce the decision support systems and its usage in cage aquaculture.

Keywords: Cage Aquaculture, Decision Support System, Decision making